ADVANCED MOBILE PAYMENT INC.

AMP ANDROID BASEAPP INTEGRATION API

Developer Guide
v 1.9
PDV-8001-1.9-E

PROPRIETARY NOTICE

All pages of this document contain information proprietary to Advanced Mobile Payment (AMP) Inc. This document shall not be duplicated, transmitted, used, or otherwise disclosed to anyone other than the organization or specific individuals to which this document is delivered. This restriction is applicable to all sheets of this document. AMP reserves the right to have the recipient return all copies of this document at any time. AMP reserves the right to change the content of this document without prior notice.

DOCUMENT PROPERTIES

INFORMATION

ID	PDV-8001-1.9-E
Title	AMP Android BaseApp Integration API - Developer Guide
Document Portal Path	/Development/AMP POS/BaseApp Semi Integration/Integration API/Guides & Manuals
Category	AMP POS – 6,8 Series
Access Level	Development
NDA Required	Yes ☑ No☐

VERSION CONTROL

Template Version	1.5

Doc. Version	Date	Summary of Change	Updated by
1.0	Dec 2017	Initial version	E. Balaoro, M. Pambago
1.1	May 2019	Added more information to Section 2 Modified transaction names as they appear in the terminal Modified Section 4 content Added Appendix A, B, and C	S. Tabios
1.2	Jan 2020	Added Set Configuration Tag Value Added Get Configuration Tag Value Added Get Card Data functionality for masked Track1 and Track 2 card data Updated Key Response including masked Track 1 and Track 2 card data	S. Tabios
1.3	Feb 2020	Added Token Data Functionality Added New Response Fields	S. Tabios
1.4	Mar 2020	Added Response Fields to Financial Transactions (indicating response fields applicable for TSYS declined transactions) Added PDF Receipt Added Receipt Samples Added Generate a PDF receipt file in Appendix B	E. Balaoro, M. Pambago, S. Tabios

1.5	Apr 2020	Added Section 4.6.1. Response Values with Sensitive Data Added missing response fields in Section 5 Added Appendix D for sample source code for XML response data Updated description of API functions based on changes made in reports	S. Tabios
1.6	July 2020	Added Receipt Samples - Global Payments Updated Receipt Samples - TSYS	M. Pambago
1.7	Sep 2020	Added RapidConnect supported transactions Added Receipt Samples – RapidConnect Added JSON Format Receipt	A. Ondevilla, M. Pambago
1.8	Oct 2020	Added JSON output to: • EMV Fallback Report • Recall Last Transaction • Last EMV Transaction Details • Terminal Total Report • Terminal Details Report • Force Close Batch	A. Ondevilla
1.9	Oct 2020	Added support for the RapidConnect Unattended Added Additional Data Key Field	A. Ondevilla
1.9	Nov 2020	Updated section 4.3 Setting the Fields - Application Types for the following: • Show Admin Menu • Show Device Settings Menu • Show Reprint Menu • Parameter Settings • Media Selection Added the following under section 4.3 Setting the Fields • Incremental Auth Number • Incremental Auth Type Updated section 4.9 Digital Receipt Printing - JSON Format – Added details related to Global Payments and RapidConnect Updated 4.5 Host Specific Transactions – Added "Sign In/Sign Out Operator" API	M. Pambago
1.9	December 2020	Added Balance Inquiry and Card Verify Added RapidConnect's EBT in the Host-specific transactions Added fields for EBT use for RapidConnect -EBT Type	A. Ondevilla

		-Voucher Serial Number -Voucher Code	
1.9	January 2021	Added Appendix D Added Appendix E Added Tag 8F (CAPK Index) Added Table File Download for RapidConnect Host Specific Transaction	K. Concha A. Ondevilla

1.9	February 2021	Added Appendix F
		Updated section 4.4 Common Transactions
		  • Added "Set Configuration Tag Values"
		  • Added Amount Due and Approved Amount for Purchase transaction
		Updated section 5.3 Global Payments – Receipts updated based on current implementation.
		Updated Appendix A – Added Amount Due and Approved Amount Key Response
			A. Ondevilla
			M. Pambago

1.9	March 2021	Consolidate all RapidConnect EBT Transactions into one Added Configuration Tags Added Configuration Values Updated Void description	A. Ondevilla E. Balaoro
1.9	May 2021	Added Data Type and Length on Appendix F Added Key Responses for FDRC Added EBT Voucher transactions Added EBT Re-enter transactions Modified Transaction Adjust Added Key Responses for TSYS Added Batch Condensed Report for TSYS	A. Ondevilla R. Magtibay

SUPPORTED HARDWARE & SOFTWARE

Doc. Version	Software Title	Release	Supported Hardware Model
1.0-1.1	AMP POS 8 Series FW	3.1.22+	AMP POS 8 Series
1.0-1.1	AMP POS 6500 FW	1.0.13+	AMP POS 6500
1.1	TSYS Attended Legacy	V02.02.024TDC	AMP POS 8 Series
1.1	SampleClientApp	V02.02.001SCA	AMP POS 8 Series
1.1	PayFacto Attended	V02.02.016PFP	AMP POS 8 Series
1.1	SampleClientApp	V02.02.001SAU	AMP 6500
1.1	PayFacto Unattended	V02.02.001UPC	AMP 6500

1.2	SampleClientApp	V02.02.003SCAc	AMP POS 6500 and 8 Series
1.2	PayFacto Attended	V02.02.019PFPh	AMP POS 6500 and 8 Series
1.3 – 1.5	TSYS Attended Legacy	V02.02.028TDCi	AMP POS 6500 and 8 Series
1.3 – 1.4	PayFacto Attended	V02.02.019PFPq	AMP POS 6500 and 8 Series
1.3 – 1.7	PayFacto Unattended	V02.02.001UPCx	AMP POS 6500
1.3 – 1.4	TSYS Unattended	V02.02.002UTCm	AMP POS 6500
1.3 – 1.4	SampleClientApp	V02.02.003SCAk	AMP POS 6500 and 8 Series
1.5 – 1.7	PayFacto Attended	V02.02.019PFPz+	AMP POS 8 Series
1.5	SampleClientApp	V02.02.003SCAr	AMP POS 6500 and 8 Series
1.5	TSYS Unattended	V02.02.003UTCa	AMP POS 6500
1.5	GPCA Attended Canada	V02.02.008GPCha01.01.001	AMP POS 8 Series
1.6	SampleClientApp	V02.02.003SCAx	AMP POS 6500 and 8 Series
1.6 – 1.8	TSYS Attended Legacy	v02.02.028TDCs+	AMP POS 8 Series
1.6 – 1.8	TSYS Unattended	v02.02.003UTCh	AMP POS 8 Series
1.6	SampleClientApp	V02.02.003SCAz	AMP POS 6500 and 8 Series
1.6 – 1.8	GPCA Attended Canada	V02.02.027.GPCha01.00.001	AMP POS 8 Series and AMP 6700
1.7	FDRC Attended	V02.02.022_FDRha01.00.000	AMP POS 8 Series
1.7 – 1.8	SampleClientApp	V02.02.004SCAd	AMP POS 8 and 6 Series
1.7 – 1.8	BaseApp Integration API	V01.01.009	AMP POS 8 and 6 Series
1.9	FDRC Attended	V02.02.059_FDRha01.00.000	AMP POS 8 Series
1.9	FDRC Unattended	V02.02.016_FDRhu01.00.000	AMP POS 6500
1.9	GPCA Unattended	V02.02.030_GPPhu01.00.001	AMP POS 6500
1.9	GPCA Attended Canada	V02.02.030.GPCha01.00.001	AMP POS 8 Series
1.9	GPCA Attended	V02.02.022_GPPha01.00.001	AMP POS 8 Series
1.9	TSYS Attended Legacy	V02.02.029TDCm	AMP POS 8 Series
1.9	TSYS Unattended	V02.02.004UTCh	AMP POS 6500
1.9	TSYS Attended Recert	v02.02.038m_TYSta02.01.001	AMP POS 8 Series

1.9	SampleClientApp	V02.02.004SCAv	AMP POS 6500 and 8 Series
1.9	BaseApp Integration API	V01.01.025	AMP POS 6500 and 8 Series

EXTERNAL REFERENCES

URLs	Android Intents https://developer.android.com/guide/components/intents-filters
E-Mail Addresses	support@amobilepayment.com
Phone Numbers	24/7 Support: +1-866-AMPUSA1
Documents	PDV-8000-1.9-E AMP POS 6 and 8 Series Developer Guide.pdf
Knowledge Base Articles	--

TABLE OF CONTENTS

TABLE OF FIGURES

1   ABOUT AMP ANDROID BASEAPP INTEGRATION API

This document is a developer guide for the AMP Android payment application (BaseApp) integration API. The primary purpose of this API is to facilitate the secured integration between a non-payment application and AMP's payment application, BaseApp.

Developers who wish to use this API will be able to create a complete payment solution without the need to dive deeper into how EMV contact and contactless kernels work or learning how to create the object to be printed by the integrated printer.

2   DATA SECURITY AND ENCRYPTION

The API facilitates communication with BaseApp while emphasizing on a secured data exchange, protected by Format-Preserving Encryption and Secure Stateless Tokenization technology. This allows Track1, Track2, and Card PAN details to be encrypted in every transaction. AMP Currently supports the following FPE implementations:

- Voltage for TSYS Sierra
- TransArmor for First Data RapidConnect
- AMP's proprietary encryption for other applications

The API must be used by non-payment applications that use BaseApp, on AMP 6 and 8 Series Android terminals, for payment transactions. However, it should be noted that the non-payment application must be first recognized by BaseApp to allow the two applications to share secure information. Please contact AMP support to facilitate the recognition of the non-payment applications:

AMP Support E-Mail Address	support@amobilepayment.com
AMP 24/7 Support Phone Number	+1-866-AMPUSA1

3   SUPPORTED TRANSACTIONS

This API allows non-payment applications to complete different types of transactions. Below is the list of payment transactions and non-transactional features that are currently supported:

- Acquirer Detail Report
- Batch Condensed Report
- Card Authentication
- Completion
- EMV Configuration Report
- EMV Fallback Report
- Force Close Batch / Clear Batch
- Force Post
- Get Card Data

- Get Configuration Tag Value
- Get Token Data
- Initialize Background Jobs
- Last EMV Transaction Details
- Media Selection
- Open Pre-Authorization Report
- Parameter Settings
- Perform Standalone Mode Setting
- Pre-Authorization
- Pre-Authorization Cancellation
- Purchase
- Recall Last Transaction
- Refund
- Set Configuration Tag Value
- Set TMS Host Address
- Set TMS ID
- Settlement
- Show Admin Menu
- Show Device Settings Menu
- Show Reprint Menu
- TMS Download
- Terminal Details Report
- Terminal Total Report
- Upload Audit Logs
- Void

Note: Transactions are available based on host functionality and support. A host may not support one or more of the listed transactions.

The API handles the following card reading and verification methods:

- Magnetic Stripe Reader (MSR)
- EMV Contact
- EMV Contactless
- Manual Key Entry

4   USING THE API

Once BaseApp has recognized the external (non-payment) application, both applications are ready to send actions and receive responses. This is achieved via AMP Android Semi-Integration Payment API protocol that uses intent-based communication (for more information, refer to Android Intents). The external application's "Transaction Controller" module sends an "intent", which is processed by BaseApp's "Client Handler" module. The BaseApp's "Client Handler" module returns the result code after processing. If the requested action requires a response value, the corresponding response value is returned.
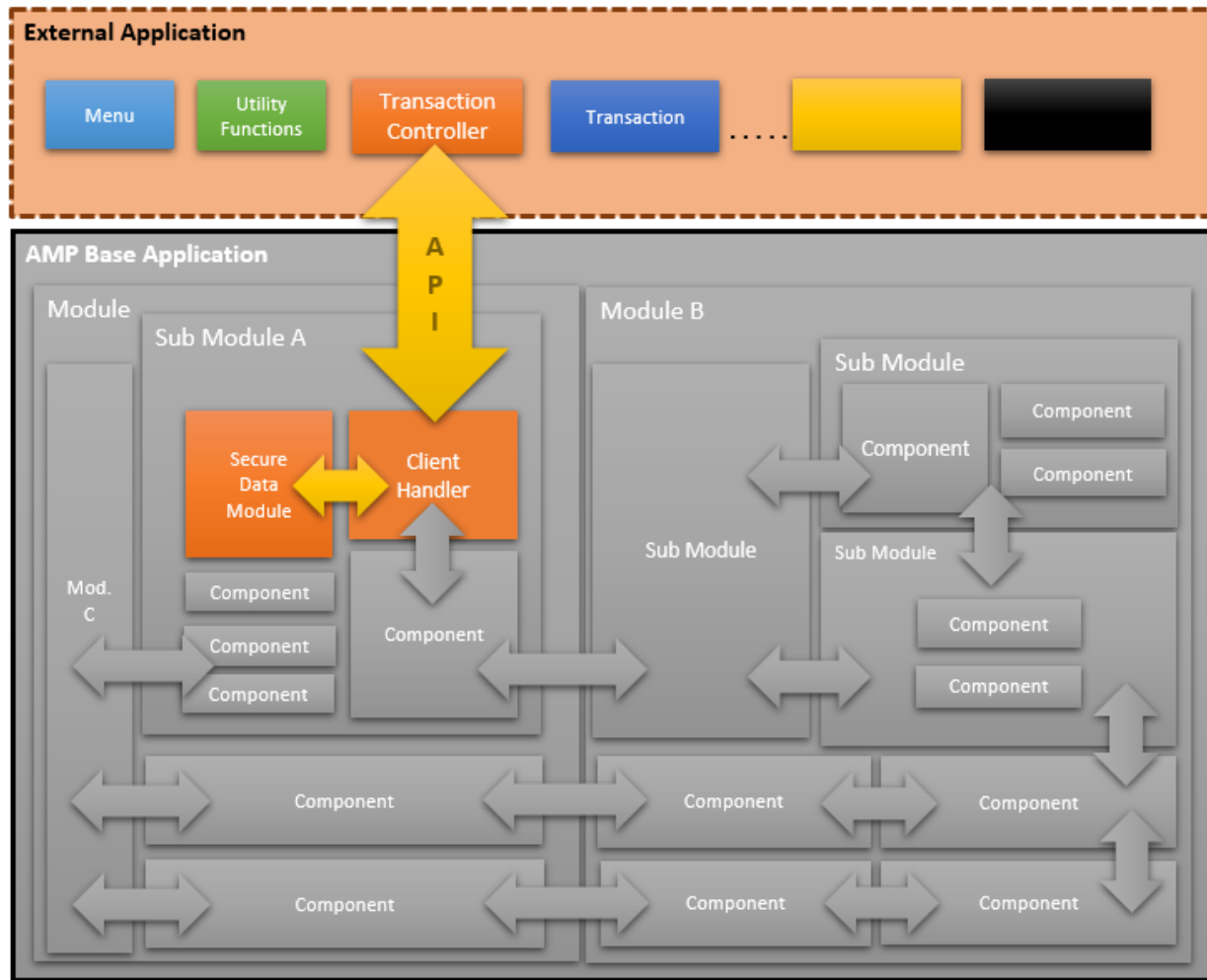
Figure 1 - AMP Android Semi-Integration Software Architecture.

4.1 OVERVIEW

To achieve a successful interaction between the external (non-payment) application and BaseApp, developers must take note of the following procedure:

1) Register the external (non-payment) application package name (explained in **Data Security and Encryption**).

2) Set the mandatory and optional fields needed in the transaction (see **Setting the Fields** section for details).

3) Call the corresponding transaction method, using the API (explained in **Common Transactions** and **Host-Specific Transactions** sections).

4) Receive response values.

5) Print the response values (optional).

For reference, check the Sample Client Application ("AMP POS v02.02.xxxSCA") source code that is provided to integrators along with this document. This document also contains sample source code illustrated in **Appendix B**.

4.2 CREATING AN ANDROID PROJECT

For a complete guide on how to create a new project for development on AMP's Android devices, please refer to the document "AMP POS 6 and 8 Series Developer Guide". For a quick Android project setup, refer to the "Creating an Android Project" section of the document.

4.3 SETTING THE FIELDS

Some transactions require field setting prior to performing a transaction. A set field method may or may not be required in a transaction, depending on the required information. The following are the available methods.

4.3.1   ADDRESS

Prototype	`public void setCardEntryMethodAddress(String address);`	
Description	Method is used to set the cardholder address.	
Input	`address`	Indicates the cardholder address. The maximum length of this value is 256 characters.
Notes	This setting is optional when card entry method is set to MANUAL; not required when card entry method is set to AUTO.	

4.3.2   ADJUST AMOUNT TYPE

Prototype	`public void setAdjustAmountType(ADJUST_AMOUNT_TYPE value);`	
Description	Method is used to set the type of amount to be adjusted using Transaction Adjust command.	
Input	`value`	Amount type to be adjusted: • PREAUTH^G – Pre-Authorized amount will be adjusted • TIP ^{G,T} – Tip will be adjusted

Notes	^T – Applicable to TSYS Transaction Adjust ^G – Applicable to Global Payments Transaction Adjust

4.3.3   ADJUST CATEGORY TYPE

Prototype	`public void seAdjustCategoryType(ADJUST_CATEGORY_TYPE value);`
Description	Method is used to set the Transaction Adjust retrieval option.
Input	`value`	Search method to find the target transaction: - LAST_TRANSACTION^G – last transaction will be adjusted - INVOICE_NUMBER^{G,T} – transaction with the specified invoice number will be adjusted - AUTH_NUMBER^G – transaction with the specified Authorization Code will be adjusted - CARD_NUMBER ^{G,T} – transaction with the specified card number will be adjusted - GATEWAYID^G – transaction with the specified Gateway Transaction ID will be adjusted - UNADJUSTED_TRANSACTIONS^{G,T} – transactions without tip amount will be adjusted based on the specified tip and clerk id. This is applicable only if **Adjust Amount Type** is TIP. - AMOUNT^{G,T} – transactions based on the specified amount, tip and clerk id will be adjusted. This is applicable only if **Adjust Amount Type** is TIP. - ALL^{G,T} – transactions with the specified tip and clerk id will be adjusted. This is applicable only if **Adjust Amount Type** is TIP.
Notes		^T – Applicable to TSYS Transaction Adjust ^G – Applicable to Global Payments Transaction Adjust

4.3.4   ADJUST NUMBER

Prototype	`public void setAdjustNumber(String number);`
Description	Method is used to set the transaction adjust numeric value.
Input	`number`	A numeric value in string format that represents the adjust number. The value depends on the "Adjust Category Type"

		supplied (see section **4.3.3 - Adjust Category Type** for the list of possible adjust category types).
Notes		This setting is only applicable to Global Payments's Transaction Adjust command.

4.3.5   AUTHORIZATION CODE

Prototype		`public void setAuthCode(String authcode);`
Description		Method is used to set the transaction authorization code.
Input	`authcode`	A 6-character alphanumeric string that represents the transaction authorization code.
Notes		This setting is required for the Force Post transaction.

4.3.6   AUTO-PRINT

Prototype		`public void setAutoPrint(boolean flag);`
Description		Method is used to set the non-payment application printing status
Input	`true`	BaseApp will automatically print the receipt
	`false`	BaseApp will not print the receipt and non-payment app should handle the receipt printing
Notes		None

4.3.7   BASE AMOUNT

Prototype		`public void setBaseAmount(String amt);`
Description		Method is used to set the transaction base amount.
Input	`amt`	An 8-digit numeric value in string format that represents the transaction base amount. The general format of this value is "999999.99". If presented differently, BaseApp modifies the value. For example: • 1.23 is reflected as 1.23 • 123 is reflected as123.00 • 12.3 is reflected as 12.30 • 123. is reflected as 123.00

	• 1.234 is reflected as 1.23 • 1.235 is reflected as 1.24
Notes	This setting is required for some financial transactions, e.g. Sale, Refund, Pre-Authorization.

4.3.8   CARD ADDITIONAL DATA

Prototype	`public void setAdditionalData(String data)`
Description	The function is used to send all additional data that is required by the payment application's transaction. Data is sent in JSON format and according to host processor's requirements.
Input	`data` AdditionalData
Notes	-This setting is currently used only for RapidConnect Unattended application to send additional data such as Fleet Group, Product Code, and Product Code Detail Group information required in Petroleum and Automatic Fuel Dispensing (AFD) deployments. -Additional Card data is only sent and is not returned. Therefore, it is not printed on the receipt or reflected in the responses. -Sample Additional Data used in the RapidConnect Unattended is demonstrated in **Appendix F**.

4.3.9   CARD ENTRY METHOD

Prototype	`public void setCardEntryMethod(CARD_ENTRY_METHOD method);`	
Description	Method is used to set the card entry method that will be used in the transaction	
Input	`AUTO`	The card is expected to be swiped, tapped, or inserted in the card slot
	`MANUAL`	The card details are expected to be entered manually
Notes	This field is set to AUTO automatically for unattended applications because manual entry is not supported for unattended applications.	

4.3.10 CARD NUMBER (PAN)

Prototype	`public void setCardEntryMethodCardNumber(String number);`	
Description	Method is used to set the Primary Account Number (PAN) that will be used in the transaction	
Input	`number`	Card PAN represented in string format
Notes	This setting is required when card entry method is set to MANUAL; not required when card entry method is set to AUTO.	

4.3.11 CARD SECURITY CODE / CARD VERIFICATION VALUE

Prototype	`public void setCardEntryMethodVcode(String code);`	
Description	Method is used to set the code for "card not present" payment card transactions. The term for this code varies across different card brands: • "CID" or "Card Identification Code" – American Express • "CVC2" or "Card Validation Code" – MasterCard • "CVD" or "Card Verification Data" – Discover • "CVN2" or "Card Validation Number 2" – China UnionPay • "CVV2" or "Card Verification Value 2" – Visa • "CVC" or "Card Verification Code" – Mastercard	
Input	`code`	Indicates the 3 or 4-digit card security code to be used in the transaction. The code length depends on the card brand: • AMEX – accepts 3 or 4 digits • The rest of the card brands (Visa, Mastercard, etc.) only accept 3 digits
Notes	When card entry method is set to MANUAL, the setting is optional for TSYS processor. For all other processors, this is mandatory. This setting is not required when card entry method is set to AUTO.	

4.3.12 CASHBACK AMOUNT

Prototype	`public void setCashbackAmount(String amt);`
Description	Method is used to set the transaction cashback amount.

Input	`amt`	An 8-digit numeric value in string format that represents the transaction cashback amount. The general format of this value is "999999.99". If presented differently, BaseApp modifies the value. For example: • 1.23 is reflected as 1.23 • 123 is reflected as123.00 • 12.3 is reflected as 12.30 • 123. is reflected as 123.00 • 1.234 is reflected as 1.23 • 1.235 is reflected as 1.24
Notes		This setting is optional for some financial transactions, e.g. Sale. Cashback amount entry must be enabled in BaseApp to use this function properly. To enable or disable Cashback, set TERMINAL.CASHBACK.ENABLED = Y/N. Otherwise, the transaction will return an "Invalid Input" response.

4.3.13   COMPLETION NUMBER

Prototype	`public void setCompletionNumber(String num);`
Description	Method is used to set the transaction completion number.

Input	`num`	A numeric value in string format that represents the completion number. The value depends on the determined "Completion Type" (see section **4.3.14 - Completion Type** for the list of possible completion types).
Notes		This setting is required for the Completion transaction except when completion type is LAST_TRANSACTION.

4.3.14   COMPLETION TYPE

Prototype	`public void setCompletionType(COMPLETION_TYPE ctype);`
Description	Method is used to set the target transaction retrieval option.

Input	`ctype`	Search method to find the target transaction: • LAST_TRANSACTION • TRACE_NUMBER / SEQUENCE_NUMBER • INVOICE_NUMBER • REFERENCE_NUMBER

		• AUTH_NUMBER
		• GATEWAYID
Notes		This setting is required for the Completion transaction. Below is a summary of the supported types per host: TSYS and PayFacto hosts accept the following completion types: • LAST_TRANSACTION • TRACE_NUMBER • INVOICE_NUMBER • REFERENCE_NUMBER • AUTH_NUMBER Global Payments host accepts the following completion types: • LAST_TRANSACTION • TRACE_NUMBER / SEQUENCE_NUMBER • INVOICE_NUMBER • REFERENCE_NUMBER • AUTH_NUMBER • GATEWAYID

4.3.15 CONFIGURATION TAG

Prototype	`public void setTag (String tag);`	
Description	Method is used to set the tag to be configured in BaseApp configuration file.	
Input	`tag`	Indicates the name of the tag that will be configured
Notes	None	

4.3.16 CONFIGURATION TAGS

Prototype	`public void setTags (String tags);`	
Description	Method is used to set the tags to be configured in BaseApp configuration file. The tags should be ":" delimited.	
Input	`tags`	Indicates the name of the tags that will be configured
Notes	None	

4.3.17   CONFIGURATION VALUE

Prototype	`public void setValue (String value);`	
Description	Method is used to set the value of the tag to be configured in BaseApp configuration file.	
Input	`value`	Indicates the value that will be set in the configuration file
Notes	None	

4.3.18   CONFIGURATION VALUES

Prototype	`public void setValues (String values);`	
Description	Method is used to set the values of the tags to be configured in BaseApp configuration file. The values should be "::" delimited.	
Input	`values`	Indicates the values that will be set in the configuration file
Notes	None	

4.3.19   EBT REENTER AUTHORIZATION CODE

Prototype	`public void setEbtAuthorizationCode(String code)`	
Description	This field contains the authorization code for the previously authorized EBT transaction.	
Input	`code`	A 6-character alphanumeric string.
Notes	Applicable to TSYS EBT Re-enter only.	

4.3.20   EBT REENTER AUTHORIZATION DATE

Prototype	`public void setEbtAuthorizationDate(String date)`	
Description	This field contains the authorization date for the previously authorized EBT transaction.	
Input	`date`	In MMDDYY format
Notes	Applicable to TSYS EBT Re-enter only.	

4.3.21   EBT REENTER AUTHORIZATION TIME

Prototype	`public void setEbtAuthorizationTime(String time)`
Description	This field contains the authorization time for the previously authorized EBT transaction.
Output	None
Notes	Applicable to TSYS EBT Re-enter only.

4.3.22   EBT REENTER CARD ENTRY TYPE

Prototype	`public void setEbtReenterCardEntryType (EBT_REENTER_CARD_ENTRY_TYPE type)`	
Description	This field identifies the entry type used by the cardholder when the card was originally presented.	
Input	`type`	MANUAL SWIPE
Notes	Applicable for TSYS EBT Reenter only.	

4.3.23   EBT REENTER NETWORK ID

Prototype	`public void setEbtNetworkId(String id)`	
Description	This field contains the network ID for the previously authorized EBT transaction.	
Input	`id`	A 1-character alphanumeric string.
Notes	Applicable to TSYS EBT Re-enter only.	

4.3.24   EBT REENTER REFERENCE NUMBER

Prototype	`public void setEbtReferenceNumber(String number)`	
Description	This field contains the reference number for the previously authorized EBT transaction.	
Input	`number`	The 12-character numeric Retrieval Reference Number returned in the original authorization response.

Notes	Applicable to TSYS EBT Re-enter only.

4.3.25 EBT REENTER RESPONSE CODE

Prototype	`public void setEbtResponseCode(String code)`	
Description	This field contains the response code for the previously authorized EBT transaction.	
Input	`code`	A 2-character alphanumeric string.
Notes	Applicable to TSYS EBT Re-enter only.	

4.3.26 EBT REENTER SETTLEMENT DATE

Prototype	`public void setEbtSettlementDate(String date)`	
Description	This field contains the settlement date for the previously authorized EBT transaction.	
Input	`date`	In MMDD format
Notes	Applicable to TSYS EBT Re-enter only.	

4.3.27 EBT REENTER TRACE NUMBER

Prototype	`public void setEbtTraceNumber(String number)`	
Description	This field contains the trace number for the previously authorized EBT transaction.	
Input	`number`	A 6 digit numeric value.
Notes	Applicable to TSYS EBT Re-enter only.	

4.3.28 EBT REENTER TRANSACTION ID

Prototype	`public void setEbtTransactionId(String id)`	
Description	This field contains the transaction ID for the previously authorized EBT transaction.	
Input	`id`	A 15-character alphanumeric string.

Notes	Applicable to TSYS EBT Re-enter only.

4.3.29 EBT REENTER TYPE

Prototype	`public void setEbtReenterType(EBT_REENTER_TYPE type)`
Description	This field identifies the kind of EBT transaction which is to be Re-Entered.
Input	`type`	SALE REFUND WITHDRAWAL VOUCHER
Notes	Applicable to TSYS EBT Re-enter only.	

4.3.30 EBT SUBTYPE

Prototype	`public void setEbtSubType(EBT_SUB_TYPE subType)`
Description	This field identifies the EBT category used for the transaction. It is set according to **EBT Type.** An EBT SubType may not be applicable to a specific EBT Type.
Input	`subType`	SALE[F,T] BAL_INQ[F,T] REFUND[F,T] VOID[F,T] WITHDRAWAL[T] VOUCHER[F,T] REENTER[T] PRE_AUTH[F] COMPLETION[F]
Notes	[T] – Applicable to TSYS EBT [F] – Applicable to FDRC EBT	

4.3.31 EBT TYPE

Prototype	`public void setEbtType(EBT_TYPE type)`	
Description	This field identifies the type of EBT account funding the transaction to be performed.	
Input	`type`	FOOD_STAMP[F,T] CASH_BENEFIT[F,T] EWIC [F]
Notes	[T] – Applicable to TSYS EBT [F] – Applicable to FDRC EBT	

4.3.32 EBT VOUCHER CODE

Prototype	`public void setEbtVoucherCode(String code)`	
Description	This field contains the Authorization/Voucher Code for a previously voice-authorized SNAP or eWIC transaction.	
Input	`code`	A 6-character alphanumeric string.
Notes		

4.3.33 EBT VOUCHER SERIAL NUMBER

Prototype	`public void setEbtVoucherSerialNumber(String serialNumber)`	
Description	This field contains the voucher serial number for a previously voice-authorized SNAP or eWIC transaction.	
Input	`serialNumber`	A 10-character alphanumeric string.
Notes	None	

4.3.34 EBT VOUCHER TYPE

Prototype	`public void setEbtVoucherType(EBT_VOUCHER_TYPE type)`
Description	This field identifies the kind of EBT voucher type to be used in the transaction.
Input	`type`	SALE[F,T] VOID[F,T]
Notes	[T] – Applicable to TSYS EBT [F] – Applicable to FDRC EBT

4.3.35 EXPIRY DATE

Prototype	`public void setCardEntryMethodExpiryDate(String date);`
Description	Method is used to set the expiry date that will be used in the transaction
Input	`date`	Indicates the expiration date of the card in MMYY string format
Notes	This setting is required when card entry method is set to MANUAL; not required when card entry method is set to AUTO.

4.3.36 INCREMENTAL AUTH NUMBER

Prototype	`public void setIncrementalAuthNumber(String number)`
Description	Method is used to set the incremental auth number based on incremental auth type.
Input	`number`	A value in string format that represents the retrieval reference to access the transaction to perform incremental auth. The value depends on the provided "Incremental Auth Type". Example: Incremental Auth Type = INVOICE_NUMBER, Incremental Auth Number = XXXXXX (Transaction's Invoice Number).

	See section **4.3.37 - Incremental Auth Type** for the list of possible types.
Notes	This setting is only applicable to RapidConnect's Incremental Auth command.

4.3.37 INCREMENTAL AUTH TYPE

Prototype	`public void setIncrementalAuthType` `(INCREMENTALAUTH_TYPE type)`
Description	Method is used to set the Incremental Auth retrieval option.
Input `type`	Search method to find the target transaction: • LAST_TRANSACTION • INVOICE_NUMBER • TRACE_NUMBER • RRN_NUMBER • AUTH_NUMBER
Notes	This setting is only applicable to RapidConnect's Incremental Auth command.

4.3.38 SET CLERK ID

Prototype	`public void setClerkID(String value)`
Description	Method is used to set the Clerk ID.
Input `value`	A numeric value in string format that represents the Clerk ID. The Clerk ID value is mandatory when the Adjust Amount Type is set to TIP (see section **4.3.2 - Adjust Amount Type**).
Notes	This setting is only applicable to Global Payments and TSYS Transaction Adjust command.

4.3.39 STANDALONE MODE VALUE

Prototype	`public void setStandaloneMode(boolean flag);`
Description	Method is used to set the application's standalone mode status.

Input	true	BaseApp can run as a standalone application
	false	BaseApp cannot run unless it is triggered by the non-payment application
Notes		This setting is required for standalone setting command. Standalone Mode value for unattended applications is automatically set to false.

4.3.40 TAX AMOUNT

Prototype	`public void setTaxAmount(String amt);`
Description	Method is used to set the transaction tax amount.
Input	amt	An 8-digit numeric value in string format that represents the transaction tax amount. The general format of this value is "999999.99". If presented differently, BaseApp modifies the value. For example: • 1.23 is reflected as 1.23 • 123 is reflected as123.00 • 12.3 is reflected as 12.30 • 123. is reflected as 123.00 • 1.234 is reflected as 1.23 • 1.235 is reflected as 1.24
Notes		Sale Tax calculation is not supported in BaseApp. However, the setting is optional for the Sale transaction of TSYS, RapidConnect, and Global Payments processors which is used purely for reporting purposes for commercial/business cards. For all other processors, this method is not used. Tax amount entry must be enabled in BaseApp to use this function properly. Otherwise, the transaction will return an "Invalid Input" response.

4.3.41 TIP AMOUNT

Prototype	`public void setTipAmount(String amt);`
Description	Method is used to set the transaction tip amount.
Input	amt	An 8-digit numeric value in string format that represents the transaction tip amount. The general format of this

	value is "999999.99". If presented differently, BaseApp modifies the value. For example: • 1.23 is reflected as 1.23 • 123 is reflected as123.00 • 12.3 is reflected as 12.30 • 123. is reflected as 123.00 • 1.234 is reflected as 1.23 • 1.235 is reflected as 1.24
Notes	This setting is optional for some financial transactions, e.g. Sale. Tip amount entry must be enabled in BaseApp to use this function properly. Otherwise, the transaction will return an "Invalid Input" response.

4.3.42 TRANSACTION ID

Prototype	`public void setTransID(String transid);`
Description	Method is used to set the transaction Transaction ID.
Input	`transid`	A 15-character alphanumeric string that represents the transaction ID.
Notes	This setting is required for the Force Post transaction of TSYS processor.

4.3.43 USER-DEFINED ECHO DATA

Prototype	`public void setUserDefinedEchoData(String data);`
Description	Method is used to set a unique identifier to be used by the non-payment application for its internal processes.
Input	`data`	A 50-byte character that represents a unique identifier for the transaction.
Notes	This unique identifier can be used by integrators to associate a transaction request with the corresponding transaction response. This is very useful when multiple non-payment applications are accessing BaseApp simultaneously. This setting is optional in all financial transactions (e.g. Sale, Refund, Force Post, etc.).

4.3.44   VOID NUMBER

Prototype	`public void setVoidNumber(String num);`
Description	Method is used to set the transaction void numerical value.
Input `num`	A numeric value in string format that represents the void number. The value interpretation depends on the determined "Void Type" (see section **4.3.45 - Void Type** for the list of possible void types). If the void type requires amount as input, the value should be provided in the "999999.99" format. If presented differently, BaseApp modifies the value. For example: • 1.23 is reflected as 1.23 • 123 is reflected as123.00 • 12.3 is reflected as 12.30 • 123. is reflected as 123.00 • 1.234 is reflected as 1.23 If the void type requires a number as input, the value is validated according to the processor requirements.
Notes	This setting is required for the Void transaction.

4.3.45   VOID TYPE

Prototype	`public void setVoidType(VOID_TYPE void_type);`
Description	Method is used to set the target transaction retrieval option.
Input `void_type`	Search method to find the target transaction (available values depends on the processor) • INVOICE_NUMBER • TRACE_NUMBER • RRN_NUMBER • AUTH_NUMBER • CARD_NUMBER • FULL_BY_AMT • FULL_BY_RRN • PARTIAL_BY_AMT • PARTIAL_BY_RRN • GATEWAYID • PARTIAL_INVOICE • PARTIAL_TRACE

		• PARTIAL_AUTH • PARTIAL_RRN • PARTIAL_CARDNUMBER • PARTIAL_GATEWAYID
Notes		This setting is required for the Void transaction. Below is a summary of the supported types per host: TSYS Processor only accepts the following: • FULL_BY_AMT • FULL_BY_RRN • PARTIAL_BY_AMT • PARTIAL_BY_RRN PayFacto Processor only accepts the following: • INVOICE_NUMBER • TRACE_NUMBER • RRN_NUMBER • AUTH_NUMBER • CARD_NUMBER Global Payments Processor only accepts the following: • INVOICE_NUMBER • TRACE_NUMBER • AUTH_NUMBER • CARD_NUMBER • GATEWAYID • PARTIAL_INVOICE • PARTIAL_TRACE • PARTIAL_AUTH • PARTIAL_CARDNUMBER • PARTIAL_GATEWAYID FDRC only accepts the following: • INVOICE_NUMBER • TRACE_NUMBER • RRN_NUMBER • AUTH_NUMBER • CARD_NUMBER • PARTIAL_INVOICE • PARTIAL_RRN • PARTIAL_TRACE • PARTIAL_AUTH • PARTIAL_CARDNUMBER

4.3.46 ZIP CODE

Prototype	`public void setCardEntryMethodZipCode(String zip);`
Description	Method is used to set the cardholder's address zip code.
Input	zip — Indicates the cardholder's address zip code. The maximum length of this value is 256 characters.
Notes	This setting is optional when card entry method is set to MANUAL; not required when card entry method is set to AUTO.

4.4 COMMON TRANSACTIONS

The following sections describe the common transaction methods, shared by all processors, that can be triggered from a non-payment application. However, not all terminal types (attended and unattended) and processors (TSYS, PayFacto, Global Payments, etc.) share the same mandatory and / or optional fields. The following legend can be referenced to determine the restrictions.

Legend	Description
No marking	No marking means the field is only applicable to Attended applications
1	Fields are only applicable to manual entry mode in Attended applications.
2	Fields are applicable to both Attended and Unattended applications
3	Response values are only applicable to declined transactions in TSYS BaseApp
4	Response values are only applicable to PayFacto BaseApp
5	Response values are only applicable to Global Payments BaseApp
6	Response values are also/only applicable to RapidConnect BaseApp
7	Field is only applicable to RapidConnect Unattended BaseApp
8	Response values are only applicable to TSYS online transactions

Note: In Unattended BaseApp integrations, due to limitation of ATMS Agent, it is important that upon every device restart, the non-payment app waits for BaseApp to auto initialize before it interacts with BaseApp. The auto initialization starts at around the 20th second. The non-payment app can safely interact with BaseApp only after auto initialization completes.

4.4.1   ACQUIRER DETAIL REPORT

This method calls BaseApp's Acquirer Detail Report print function.

Prototype	`public void performAcquirerDetail();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_XMLDATA KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_JSONRCPT[6] KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

The following describes the XML format in KEY_RESPONSE_XMLDATA:

```
<XMLResponse>
    <XMLCmdType>AcquirerDetailReport</XMLCmdType>
    <XMLReceipt>
        <ReportHeader>
            <ReportLabel>ACQUIRER DETAIL REPORT</ReportLabel>
            <ReceiptHeader1>AMP TEMP TERMINAL TESTING</ReceiptHeader1>
            <ReceiptHeader2>15 WERTHEIM CRT. UNITS 401-403</ReceiptHeader2>
            <ReceiptHeader3>RICHMOND HILL ON L4B3H7</ReceiptHeader3>
            <ReceiptHeader4>AMP TESTING KRISTENE CONCHA</ReceiptHeader4>
            <TransDate>06/26/2019</TransDate>
            <TransTime>02:58:15</TransTime>
```

```xml
</ReportHeader>
<ReportBody>
    <ReportLabel1>Acquirer Information</ReportLabel1>
    <AcquirerInfo>
        <AcquirerName>CTPAY</AcquirerName>
        <MerchantID>AMP0000001</MerchantID>
        <TerminalID>AMP00006</TerminalID>
    </AcquirerInfo>
    <ReportLabel2>Host Information</ReportLabel2>
    <Host_1>
        <Trx>
            <IP_1>
                <Address>TEST.CTPAIEMENT.CA</Address>
                <Port>9885</Port>
                <SSL>Y</SSL>
                <SSLMethod>6</SSLMethod>
                <SSLCert>ENTRUST_EV.CA</SSLCert>
                <ClientAuth>N</ClientAuth>
                <ClientKey>NONE</ClientKey>
                <ClientCert>NONE</ClientCert>
                <ClientPwd>NONE</ClientPwd>
                <BaudRate>1200</BaudRate>
                <DialMode>DTMF</DialMode>
            </IP_1>
            <IP_2>
                <Address>TEST.CTPAIEMENT.CA</Address>
                <Port>9885</Port>
                <SSL>Y</SSL>
                <SSLMethod>6</SSLMethod>
                <SSLCert>ENTRUST_EV.CA</SSLCert>
                <ClientAuth>N</ClientAuth>
                <ClientKey>NONE</ClientKey>
                <ClientCert>NONE</ClientCert>
                <ClientPwd>NONE</ClientPwd>
                <BaudRate>1200</BaudRate>
                <DialMode>DTMF</DialMode>
            </IP_2>
            </Trx>
        <Settle>
            <IP_1>
                <Address>TEST.CTPAIEMENT.CA</Address>
                <Port>9885</Port>
                <SSL>Y</SSL>
                <SSLMethod>6</SSLMethod>
                <SSLCert>ENTRUST_EV.CA</SSLCert>
                <ClientAuth>N</ClientAuth>
                <ClientKey>NONE</ClientKey>
                <ClientCert>NONE</ClientCert>
                <ClientPwd>NONE</ClientPwd>
```

```
                        <BaudRate>1200</BaudRate>
                        <DialMode>DTMF</DialMode>
                    </IP_1>
                    <IP_2>
                        <Address>TEST.CTPAIEMENT.CA</Address>
                        <Port>9885</Port>
                        <SSL>Y</SSL>
                        <SSLMethod>6</SSLMethod>
                        <SSLCert>ENTRUST_EV.CA</SSLCert>
                        <ClientAuth>N</ClientAuth>
                        <ClientKey>NONE</ClientKey>
                        <ClientCert>NONE</ClientCert>
                        <ClientPwd>NONE</ClientPwd>
                        <BaudRate>1200</BaudRate>
                        <DialMode>DTMF</DialMode>
                    </IP_2>
                </Settle>
            </Host_1>
        </ReportBody>
    </XMLReceipt>
</XMLResponse>
```

The returned XML format report is not supported by RapidConnect and should be implemented in JSON format, as demonstrated in the following code sample:

```json
{
    "layout": {
        "format": "condensed",
        "fontmaxchars": [
            {
                "regular": 34
            },
            {
                "emphasis": 24
            },
            {
                "detail": 42
            }
        ]
    },
    "lines": [
        {
        "1": [
            {
                "type": "image",
                "align": "c",
                "image": "AMPLogoPrn.png"
            }
        ]
```

```
        },
        {
            "2": [
                {
                    "type": "line",
                    "align": "c",
                    "size": "emphasis",
                    "txt": "Merchant Name"
                }
            ]
        },
        {
            "3": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Merchant Address 1"
                }
            ]
        },
        {
            "4": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Merchant Address 2"
                }
            ]
        },
        {
            "5": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Merchant Address 3"
                }
            ]
        },
        {
            "6": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Customer Service Phone Number"
                }
            ]
        },
        {
            "7": [
```

```
            {
                "type": "line",
                "align": "c",
                "txt": "123-456-7890"
            }
        ]
    },
    {
        "8": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "9": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "10": [
            {
                "type": "line",
                "align": "c",
                "txt": "CHIP TRANSACTION REPORT"
            }
        ]
    },
    {
        "11": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "12": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "10/01/2020",
                "txt2": "03:30PM"
            }
        ]
    },
    {
        "13": [
```

```
        {
            "type": "nextline"
        }
    ]
},
{
    "14": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "TID: 003",
            "txt2": "10/01/20   03:30PM"
        }
    ]
},
{
    "15": [
        {
            "type": "nextline"
        }
    ]
},
{
    "16": [
        {
            "type": "line",
            "align": "c",
            "txt": "5A   PAN            ************0010"
        }
    ]
},
{
    "17": [
        {
            "type": "nextline"
        }
    ]
},
{
    "18": [
        {
            "type": "line",
            "align": "c",
            "txt": "82   AIP                    1C00"
        }
    ]
},
{
    "19": [
```

```
            {
                "type": "nextline"
            }
        ]
    },
    {
        "20": [
            {
                "type": "line",
                "align": "c",
                "txt": "84   Dedicated file name            "
            }
        ]
    },
    {
        "21": [
            {
                "type": "line",
                "align": "c",
                "txt": "      A0000000031010                "
            }
        ]
    },
    {
        "22": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "23": [
            {
                "type": "line",
                "align": "c",
                "txt": "9A   Transaction Date       201001"
            }
        ]
    },
    {
        "24": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "25": [
            {
```

```
                    "type": "line",
                    "align": "c",
                    "txt": "9F21 Transaction Time        150108"
                }
            ]
        },
        {
            "26": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "27": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "9C   Transaction Type            00"
                }
            ]
        },
        {
            "28": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "29": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "5F34 PAN Seq Num                 01"
                }
            ]
        },
        {
            "30": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "31": [
                {
                    "type": "line",
```

```
                "align": "c",
                "txt": "5F2A Tran Currency Code       0840"
            }
        ]
    },
    {
        "32": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "33": [
            {
                "type": "line",
                "align": "c",
                "txt": "9F02 Amount, authorize000000012000"
            }
        ]
    },
    {
        "34": [
            {
                "type": "line",
                "align": "lr",
                "txt2": "($ 120.00)"
            }
        ]
    },
    {
        "35": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "36": [
            {
                "type": "line",
                "align": "c",
                "txt": "9F03 Amount, Other    000000000000"
            }
        ]
    },
    {
        "37": [
            {
```

```
                "type": "nextline"
            }
        ]
    },
    {
        "38": [
            {
                "type": "line",
                "align": "c",
                "txt": "9F08 ICC App Ver Num          0096"
            }
        ]
    },
    {
        "39": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "40": [
            {
                "type": "line",
                "align": "c",
                "txt": "9F09 Term App Ver Num         008C"
            }
        ]
    },
    {
        "41": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "42": [
            {
                "type": "line",
                "align": "c",
                "txt": "9F1A Term Country Code        0840"
            }
        ]
    },
    {
        "43": [
            {
                "type": "nextline"
```

```
                }
            ]
        },
        {
            "44": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "9F33 Terminal CapabilitiesE0 F8 C8"
                }
            ]
        },
        {
            "45": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "46": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "9F34 CVM Results          1F0002"
                }
            ]
        },
        {
            "47": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "48": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "9F35 Terminal Type            22"
                }
            ]
        },
        {
            "49": [
                {
                    "type": "nextline"
                }
```

```
            ]
        },
        {
            "50": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "9F36 ATC                          024C"
                }
            ]
        },
        {
            "51": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "52": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "9F37 Unpredictable Num    8669BA5F"
                }
            ]
        },
        {
            "53": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "54": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "9F0D IAC Default        B050808800"
                }
            ]
        },
        {
            "55": [
                {
                    "type": "nextline"
                }
            ]
```

```
        },
        {
            "56": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "9F0E IAC Denial          0000000000"
                }
            ]
        },
        {
            "57": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "58": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "9F0F IAC Online          B050809800"
                }
            ]
        },
        {
            "59": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "60": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "TAC Default",
                    "txt2": "DC4000A800"
                }
            ]
        },
        {
            "61": [
                {
                    "type": "nextline"
                }
            ]
```

```json
                },
                {
                    "62": [
                        {
                            "type": "line",
                            "align": "lr",
                            "txt1": "TAC Denial",
                            "txt2": "0010000000"
                        }
                    ]
                },
                {
                    "63": [
                        {
                            "type": "nextline"
                        }
                    ]
                },
                {
                    "64": [
                        {
                            "type": "line",
                            "align": "lr",
                            "txt1": "TAC Online",
                            "txt2": "DC4004F800"
                        }
                    ]
                },
                {
                    "65": [
                        {
                            "type": "nextline"
                        }
                    ]
                },
                {
                    "66": [
                        {
                            "type": "line",
                            "align": "l",
                            "txt": "1st GENERATE AC"
                        }
                    ]
                },
                {
                    "67": [
                        {
                            "type": "nextline"
                        }
```

```
            ]
        },
        {
            "68": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "95    TVR                   8080009000"
                }
            ]
        },
        {
            "69": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "70": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "9F10 Issuer Appl Data             "
                }
            ]
        },
        {
            "71": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "     06010A0360A000               "
                }
            ]
        },
        {
            "72": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "73": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "9F26 Appl Cryptogram             "
```

```
            }
        ]
    },
    {
        "74": [
            {
                "type": "line",
                "align": "c",
                "txt": "      5E2A1CB90426A471              "
            }
        ]
    },
    {
        "75": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "76": [
            {
                "type": "line",
                "align": "c",
                "txt": "9F27 CID                               40"
            }
        ]
    },
    {
        "77": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "78": [
            {
                "type": "line",
                "align": "l",
                "txt": "2nd GENERATE AC"
            }
        ]
    },
    {
        "79": [
            {
                "type": "nextline"
            }
```

```
                ]
            },
            {
                "80": [
                    {
                        "type": "line",
                        "align": "c",
                        "txt": "91   Issuer Authentication Data    "
                    }
                ]
            },
            {
                "81": [
                    {
                        "type": "line",
                        "align": "c",
                        "txt": " 909230330A5AC15E3030               "
                    }
                ]
            },
            {
                "82": [
                    {
                        "type": "nextline"
                    }
                ]
            },
            {
                "83": [
                    {
                        "type": "line",
                        "align": "c",
                        "txt": "95   TVR                 8080009000"
                    }
                ]
            },
            {
                "84": [
                    {
                        "type": "nextline"
                    }
                ]
            },
            {
                "85": [
                    {
                        "type": "line",
                        "align": "c",
                        "txt": "9F26 Appl Cryptogram             "
```

```
                }
            ]
        },
        {
            "86": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "     5E2A1CB90426A471              "
                }
            ]
        },
        {
            "87": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "88": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "9F27 CID                           40"
                }
            ]
        },
        {
            "89": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "90": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "91": [
                {
                    "type": "line",
                    "align": "l",
                    "txt": "Final"
                }
```

```
                ]
            },
            {
                "92": [
                    {
                        "type": "nextline"
                    }
                ]
            },
            {
                "93": [
                    {
                        "type": "line",
                        "align": "c",
                        "txt": "8A   Auth Response Code        00"
                    }
                ]
            },
            {
                "94": [
                    {
                        "type": "nextline"
                    }
                ]
            },
            {
                "95": [
                    {
                        "type": "line",
                        "align": "c",
                        "txt": "9B   TSI                    7800"
                    }
                ]
            },
            {
                "96": [
                    {
                        "type": "nextline"
                    }
                ]
            },
            {
                "97": [
                    {
                        "type": "line",
                        "align": "c",
                        "txt": "END OF REPORT"
                    }
                ]
```

```
        },
        {
            "98": [
                {
                    "type": "line",
                    "align": "c",
                    "size": "detail",
                    "txt": "AMP POS Version"
                }
            ]
        },
        {
            "99": [
                {
                    "type": "line",
                    "align": "c",
                    "size": "detail",
                    "txt": "02.02.027_FDRha01.00.000"
                }
            ]
        },
        {
            "100": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "101": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "102": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "103": [
                {
                    "type": "nextline"
                }
            ]
        },
```

```
        {
            "104": [
                {
                    "type": "nextline"
                }
            ]
        }
    ]
}
```

4.4.2   BATCH CONDENSED REPORT

This method calls BaseApp's Batch Condensed Report function. This feature is only supported in TSYS.

Prototype	`public void performBatchCondensedReport();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_XMLDATA KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

The following describes the XML format in KEY_RESPONSE_XMLDATA:

```
<XMLResponse>
     <XMLReceipt>
          <ReportHeader>
               <ReportLabel>BATCH CONDENSED REPORT</ReportLabel>
               <ReceiptHeader1>Merchant Name</ReceiptHeader1>
               <ReceiptHeader2>Merchant Address 1</ReceiptHeader2>
               <ReceiptHeader3>Merchant Address 2</ReceiptHeader3>
```

```
            <ReceiptHeader4>Merchant Address 3</ReceiptHeader4>
            <ReceiptHeader5>Customer         Service         Phone
Number</ReceiptHeader5>
            <ReceiptHeader6>123-456-7890</ReceiptHeader6>
            <TransDate>06/01/2021</TransDate>
            <TransTime>02:40AM</TransTime>
            <MerchantID>887000002726</MerchantID>
            <TerminalID>71134064</TerminalID>
            <FromDate>06/01/2021</FromDate>
            <FromTime>03:40AM</FromTime>
            <ToDate>06/01/2021</ToDate>
            <ToTime>03:40AM</ToTime>
            <BatchNo>1</BatchNo>
        </ReportHeader>
        <ReportBody>
            <Transaction_1>
                <InvoiceNo>000001</InvoiceNo>
                <TransactionType>SL</TransactionType>
                <CardType>MC</CardType>
                <AccountNumber>0035</AccountNumber>
                <TotalAmount> 10.00</TotalAmount>
            </Transaction_1>
        </ReportBody>
        <TerminalTotals>
            <BatchTotalRecords>1</BatchTotalRecords>
            <TotalVoidCount>0</TotalVoidCount>
            <BatchTipAmount> 0.00</BatchTipAmount>
            <NetSales> 10.00</NetSales>
        </TerminalTotals>
    </XMLReceipt>
</XMLResponse>
```

Note: The returned JSON format report is not yet supported by TSYS.

4.4.3   CARD AUTHENTICATION

This method calls BaseApp's Card Authentication function.

Prototype	`public void performCardAuthentication();`
Mandatory Fields (See **Setting the Fields** for details)	**Card Number (PAN)** **Expiry Date** **Card Security Code / Card Verification Value**
Optional Fields	**User-Defined Echo Data**

(See **Setting the Fields** for details)	
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DATE[1,4] KEY_RESPONSE_TIME[1,4] KEY_RESPONSE_TID[1,4] KEY_RESPONSE_PAN[1,4,6] KEY_RESPONSE_TRACK2[1,4] KEY_RESPONSE_SEQUENCENUM[1,4,6] KEY_RESPONSE_CODE[1,4] KEY_RESPONSE_TEXT[1,4] KEY_RESPONSE_JSONRCPT[6] KEY_RESPONSE_DEMO_MODE
Application Type	Attended

4.4.4 COMPLETION

This method calls BaseApp's Completion transaction. Unattended application allows completion by Invoice Number, by Trace Number, by Auth Number, by Reference Number, by Gateway ID and Last Transaction.

Prototype	`public void performCompletion();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print** **Base Amount**[2] **Completion Number** **Completion Type**[2] **Card Additional Data**[7]
Optional Fields	**User-Defined Echo Data**

(See **Setting the Fields** for details)	
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_MERCH_NAME KEY_RESPONSE_MERCH_ADD1 KEY_RESPONSE_MERCH_ADD2 KEY_RESPONSE_CUST_SERV_PHONE KEY_RESPONSE_TIME KEY_RESPONSE_DATE KEY_RESPONSE_TID KEY_RESPONSE_MID KEY_RESPONSE_TRANSNAME KEY_RESPONSE_CARD_HOLDER_NAME KEY_RESPONSE_CARDLABEL KEY_RESPONSE_PAN KEY_RESPONSE_EXPIRYDATE KEY_RESPONSE_TRACK1 KEY_RESPONSE_TRACK2 KEY_RESPONSE_ENTRYMODE KEY_RESPONSE_CVM KEY_RESPONSE_INVOICENUM KEY_RESPONSE_CLERKID KEY_RESPONSE_STORENUM KEY_RESPONSE_TRACENUM KEY_RESPONSE_BATCHNUM KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_BASEAMT KEY_RESPONSE_TIPAMT

	KEY_RESPONSE_CASHBKAMT
	KEY_RESPONSE_SURCHARGEAMT
	KEY_RESPONSE_TOTALAMT
	KEY_RESPONSE_TVR
	KEY_RESPONSE_AID
	KEY_RESPONSE_AUTHCODE
	KEY_RESPONSE_SEQUENCENUM
	KEY_RESPONSE_CURRENCY
	KEY_RESPONSE_IAD
	KEY_RESPONSE_TSI
	KEY_RESPONSE_ARC
	KEY_RESPONSE_CODE
	KEY_RESPONSE_TEXT
	KEY_RESPONSE_APPPREFNAME
	KEY_RESPONSE_TC
	KEY_RESPONSE_HOSTTIMESTAMP
	KEY_RESPONSE_TRANSREF
	KEY_RESPONSE_RESULTCODE
	KEY_RESPONSE_TOKEN_DATA
	KEY_RESPONSE_HEADER1
	KEY_RESPONSE_HEADER2
	KEY_RESPONSE_HEADER3
	KEY_RESPONSE_HEADER4
	KEY_RESPONSE_HEADER5
	KEY_RESPONSE_HEADER6
	KEY_RESPONSE_FOOTER1
	KEY_RESPONSE_FOOTER2

KEY_RESPONSE_FOOTER3
KEY_RESPONSE_FOOTER4
KEY_RESPONSE_FOOTER5
KEY_RESPONSE_FOOTER6
KEY_RESPONSE_TRANSID
KEY_RESPONSE_CASHBACKFEE
KEY_RESPONSE_NONCASHFEE
KEY_RESPONSE_APP_VERSION
KEY_RESPONSE_REVERSAL_AMT[4]
KEY_RESPONSE_EMV_APP_TRANSDATA[4]
KEY_RESPONSE_CODE_ISO[4]
KEY_RESPONSE_SWVER[4]
KEY_RESPONSE_ISSUERNAME[5]
KEY_RESPONSE_GATEWAYTRANSID[5]
KEY_RESPONSE_BANKRESPONSECODE[5]
KEY_RESPONSE_AVAILABLE_AMT[5]
KEY_RESPONSE_EMV_APPLABEL[6]
KEY_RESPONSE_EMV_APPLPAN[6]
KEY_RESPONSE_EMV_CURRENCYCODE[6]
KEY_RESPONSE_EMV_PANSEQNUM[6]
KEY_RESPONSE_EMV_AIP[6]
KEY_RESPONSE_EMV_TVR[6]
KEY_RESPONSE_EMV_TRANSDATE[6]
KEY_RESPONSE_EMV_TRANSTYPE[6]
KEY_RESPONSE_EMV_AMT_AUTH[6]
KEY_RESPONSE_EMV_OTH_AMT[6]
KEY_RESPONSE_APP_USAGE_CTRL[6]

	KEY_RESPONSE_EMV_IAC_ONLINE[6]
	KEY_RESPONSE_EMV_IAC_DEFAULT[6]
	KEY_RESPONSE_EMV_IAC_DENIAL[6]
	KEY_RESPONSE_APPPREFNAME[6]
	KEY_RESPONSE_EMV_TERM_CCODE[6]
	KEY_RESPONSE_EMV_AC[6]
	KEY_RESPONSE_EMV_CID[6]
	KEY_RESPONSE_EMV_IAD[6]
	KEY_RESPONSE_EMV_CVM[6]
	KEY_RESPONSE_JSONRCPT[6]
	KEY_RESPONSE_ORDER_NUM[6]
	KEY_RESPONSE_PURCHASE_IDENTIFIER[6]
	KEY_RESPONSE_MERCHANT_TAX_ID[6]
	KEY_RESPONSE_TAX_EXEMPT_STATUS[6]
	KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

4.4.5   EMV CONFIGURATION REPORT

This method calls BaseApp's EMV Configuration Report function.

Prototype	`public void performEMVConfigReport();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response	KEY_RESPONSE_XMLDATA

(Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

The following describes the XML format in KEY_RESPONSE_XMLDATA:

```
<XMLResponse>
     <XMLCmdType>EMVConfigurationReport</XMLCmdType>
     <XMLReceipt>
        <ReportHeader>
             <ReportLabel>EMV CONFIGURATION REPORT</ReportLabel>
             <ReceiptHeader1>AMP TEMP TERMINAL TESTING</ReceiptHeader1>
             <ReceiptHeader2>15 WERTHEIM CRT. UNITS 401-403</ReceiptHeader2>
             <ReceiptHeader3>RICHMOND HILL ON L4B3H7</ReceiptHeader3>
             <ReceiptHeader4>AMP TESTING KRISTENE CONCHA</ReceiptHeader4>
             <TransDate>06/26/19</TransDate>
             <TransTime>02:42:51</TransTime>
             <BatchNo>0102</BatchNo>
             <TerminalID>AMP00006</TerminalID>
        </ReportHeader>
        <ReportBody>
           <AppIDInfo>
            <AID>A00000000410010</AID>
            <AIDLabel>A00000000410010</AIDLabel>
            <Contact>
                <TermType>25</TermType>
                <TermCap>60D8C8</TermCap>
                <AddlCap>6000F05001</AddlCap>
                <TacDefault>DC 00 00 20 00</TacDefault>
                <TacDenial>00 10 00 00 00</TacDenial>
                <TacOnline>FC E0 9C F8 00</TacOnline>
                <TerminalCountryCode>840</TerminalCountryCode>
                <TerminalCurrencyCode>840</TerminalCurrencyCode>
                <TerminalCurrencyExpiry>02</TerminalCurrencyExpiry>
                <AppVerNumPri>0x0001</AppVerNumPri>
                <AppVerNumSec>N/A</AppVerNumSec>
                <FloorLimit>00000000</FloorLimit>
                <RSThreshold>000000</RSThreshold>
                <MaxRSPercentage>63</MaxRSPercentage>
                <RSPercentage>63</RSPercentage>
                <PartialSelect>Y</PartialSelect>
                <AllowFallback>Y</AllowFallback>
```

```
            <AllowPINBypass>N</AllowPINBypass>
            <AcquirerID>0000000000000000</AcquirerID>
        </Contact>
        <Contactless>
            <TACDefault>F4 50 84 80 0C</TACDefault>
            <TACDenial>00 00 00 00 00</TACDenial>
            <TACOnline>F4 50 84 80 0C</TACOnline>
            <TermCapCVMR>40</TermCapCVMR>
            <TermCapCVMN>08</TermCapCVMN>
            <FloorLimit>000000000000</FloorLimit>
            <TransLimit>000000099999</TransLimit>
            <ReqCVMLimit>00000050000<ReqCVMLimit>
            <MChipEnable>Y</MChipEnable>
            <MSDEnable>Y</MSDEnable>
        </Contactless>
        <CAPKInfo>
        <CAPKList_1>
            <Index>00</Index>
            <ExpDate>311120</ExpDate>
        </CAPKList_1>
        </CAPKInfo>
        </AppIDInfo>
        </ReportBody>
    </XMLReceipt>
</XMLResponse>
```

Note: The returned XML format report is not supported by RapidConnect and also not yet supported in JSON Format.

4.4.6   EMV FALLBACK REPORT

This method calls BaseApp's EMV Fallback Report function.

Prototype	`public void performEMVFallbackReport();`
Mandatory Fields (See **Setting the Fields** for details)	Auto-Print
Optional Fields (See **Setting the Fields** for details)	User-Defined Echo Data
Key Response	KEY_RESPONSE_XMLDATA KEY_RESPONSE_RESULTCODE

(Refer to **Appendix A** for description of each key)	KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_JSONRCPT[6] KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

The following describes the XML format in KEY_RESPONSE_XMLDATA:

```
<XMLResponse>
    <XMLCmdType>EMVFallbackReport</XMLCmdType>
    <XMLReceipt>
        <ReportHeader>
            <ReportLabel>EMV FALLBACK REPORT</ReportLabel>
            <ReceiptHeader1>AMP TEMP TERMINAL TESTING</ReceiptHeader1>
            <ReceiptHeader2>15 WERTHEIM CRT. UNITS 401-403</ReceiptHeader2>
            <ReceiptHeader3>RICHMOND HILL ON L4B3H7</ReceiptHeader3>
            <ReceiptHeader4>AMP TESTING KRISTENE CONCHA</ReceiptHeader4>
            <TransDate>06/26/19</TransDate>
            <TransTime>02:42:51</TransTime>
            <BatchNo>0102</BatchNo>
            <TerminalID>AMP00006</TerminalID>
        </ReportHeader>
        <ReportBody>
            <Threshold>0.0%</Threshold>
            <SerialNumber>82000000078</SerialNumber>
            <TotalTrans>59</TotalTrans>
            <FallbackPercent>2%</FallbackPercent>
            <FallbackCount>1</FallbackCount>
        </ReportBody>
    </XMLReceipt>
</XMLResponse>
```

The returned XML format report is not supported by RapidConnect and should be implemented in JSON format, as demonstrated in the following code sample:

```
{
        "layout":          {
                "format":          "condensed",
                "fontmaxchars": [{
                                "regular":       34
                        }, {
                                "emphasis":      24
                        }, {
```

```
                          "detail":        42
                  }]
        },
        "lines":          [{
                  "1":    [{
                                  "type": "image",
                                  "align":          "c",
                                  "image":          "AMPLogoPrn.png"
                  }]
          }, {
                  "2":    [{
                                  "type": "line",
                                  "align":          "c",
                                  "size": "emphasis",
                                  "font": "bold",
                                  "txt":   "Merchant Name"
                  }]
          }, {
                  "3":    [{
                                  "type": "line",
                                  "align":          "c",
                                  "txt":   "Merchant Address 1"
                  }]
          }, {
                  "4":    [{
                                  "type": "line",
                                  "align":          "c",
                                  "txt":   "Merchant Address 2"
                  }]
          }, {
                  "5":    [{
                                  "type": "line",
                                  "align":          "c",
                                  "txt":   "Merchant Address 3"
                  }]
          }, {
                  "6":    [{
                                  "type": "line",
                                  "align":          "c",
                                  "txt":   "Customer   Service   Phone
Number"
                  }]
          }, {
                  "7":    [{
                                  "type": "line",
                                  "align":          "c",
                                  "txt":   "123-456-7890"
                  }]
          }, {
```

```
                          "8":     [{
                                          "type": "nextline"
                                  }]
                  }, {
                          "9":     [{
                                          "type": "nextline"
                                  }]
                  }, {
                          "10":    [{
                                          "type": "line",
                                          "align":         "c",
                                          "font": "bold",
                                          "txt":  "CHIP   TECHNICAL   FALLBACK
REPORT"
                                  }]
                  }, {
                          "11":    [{
                                          "type": "nextline"
                                  }]
                  }, {
                          "12":    [{
                                          "type": "line",
                                          "align":         "lr",
                                          "txt1": "12/20/2020",
                                          "txt2": "04:30PM"
                                  }]
                  }, {
                          "13":    [{
                                          "type": "nextline"
                                  }]
                  }, {
                          "14":    [{
                                          "type": "line",
                                          "align":         "lr",
                                          "font": "bold",
                                          "txt1": "TID: 001",
                                          "txt2": "12/20/20   04:30PM"
                                  }]
                  }, {
                          "15":    [{
                                          "type": "nextline"
                                  }]
                  }, {
                          "16":    [{
                                          "type": "line",
                                          "align":         "c",
                                          "font": "bold",
                                          "txt":   "Period:       12/17/2020
12:19PM   "
```

```
                                }]
                }, {
                        "17":    [{
                                        "type": "line",
                                        "align":          "c",
                                        "font": "bold",
                                        "txt": "                 12/20/2020
04:30PM    "
                                }]
                }, {
                        "18":    [{
                                        "type": "nextline"
                                }]
                }, {
                        "19":    [{
                                        "type": "line",
                                        "align":          "l",
                                        "font": "bold",
                                        "txt":  "Threshold%: 0.0%"
                                }]
                }, {
                        "20":    [{
                                        "type": "nextline"
                                }]
                }, {
                        "21":    [{
                                        "type": "nextline"
                                }]
                }, {
                        "22":    [{
                                        "type": "line",
                                        "align":          "c",
                                        "font": "bold",
                                        "txt":  "Chip      Total    Tech.
Tech.    "
                                }]
                }, {
                        "23":    [{
                                        "type": "line",
                                        "align":          "c",
                                        "font": "bold",
                                        "txt":  "          Tran#   Fallback
Fallback"
                                }]
                }, {
                        "24":    [{
                                        "type": "line",
                                        "align":          "c",
                                        "font": "bold",
```

```
                                              "txt":    "                              #
%       "
                                          }]
                  },  {
                          "25":    [{
                                              "type": "line",
                                              "align":           "c",
                                              "txt":    "------------------------
---------"
                                          }]
                  },  {
                          "26":    [{
                                              "type": "nextline"
                                          }]
                  },  {
                          "27":    [{
                                              "type": "line",
                                              "align":           "c",
                                              "txt":    "8200000099  26            3
12%      "
                                          }]
                  },  {
                          "28":    [{
                                              "type": "nextline"
                                          }]
                  },  {
                          "29":    [{
                                              "type": "nextline"
                                          }]
                  },  {
                          "30":    [{
                                              "type": "line",
                                              "align":           "c",
                                              "txt":    "END OF REPORT"
                                          }]
                  },  {
                          "31":    [{
                                              "type": "line",
                                              "align":           "c",
                                              "size": "detail",
                                              "txt":    "AMP POS Version"
                                          }]
                  },  {
                          "32":    [{
                                              "type": "line",
                                              "align":           "c",
                                              "size": "detail",
                                              "txt":    "02.02.035_FDRha01.00.000"
                                          }]
```

```
        }, {
                "33":   [{
                                "type": "nextline"
                        }]
        }, {
                "34":   [{
                                "type": "nextline"
                        }]
        }, {
                "35":   [{
                                "type": "nextline"
                        }]
        }, {
                "36":   [{
                                "type": "nextline"
                        }]
        }, {
                "37":   [{
                                "type": "nextline"
                        }]
        }, {
                "38":   [{
                                "type": "nextline"
                        }]
        }]
}
```

4.4.7   FORCE CLOSE BATCH / CLEAR BATCH

This method calls BaseApp's Force Close Batch / Clear Batch transaction.

Prototype	`public void performCloseBatch();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_XMLDATA KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA

	KEY_RESPONSE_APP_VERSION
	KEY_RESPONSE_JSONRCPT[6]
	KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

The XML format of KEY_RESPONSE_XMLDATA varies per processor.

- The following format applies to TSYS and Global Payment processors:

```
<XMLResponse>
    <XMLCmdType>ClearBatch</XMLCmdType>
    <XMLReceipt>
        <ReportHeader>
            <ReceiptHeader1>AMP TEMP TERMINAL TESTING</ReceiptHeader1>
            <ReceiptHeader2>15    WERTHEIM    CRT.    UNITS    401-
403</ReceiptHeader2>
            <ReceiptHeader3>RICHMOND HILL ON L4B3H7</ReceiptHeader3>
            <ReceiptHeader4>AMP TESTING KRISTENE CONCHA</ReceiptHeader4>
            <TransDate>06/26/19</TransDate>
            <TransTime>02:54:25</TransTime>
            <MerchantID>887000002726</BatchNo>
            <TerminalID>71134104</TerminalID>
         <FromDate>03/21/2020</FromDate>
         <FromTime>05:31 AM</FromTime>
         <ToDate>03/21/2020</ToDate>
         <ToTime>05:31 AM</ToTime>
         <BatchNo>238</BatchNo>
        </ReportHeader>
        <ReportBody>
         <ReportCount>2</ReportCount>
         <Report_1>
         <ReportLabel>BATCH DETAIL REPORT</ReportLabel>
            <Transaction_1>
                <TransDate>03/21/2020</TransDate>
                <TransTime>02:54:25</TransTime>
                 <TransName>SALE</TransName>
                 <InvoiceNo>000075</InvoiceNo>
                <AccountNumber>************0057</AccountNumber>
                <AuthNumber>552442</AuthNumber>
                <ReferenceNumber>008610500940</ReferenceNumber>
                <TransAmount>$10.00</TransAmount>
                <TotalAmount>$10.00</TransAmount>
            </Transaction_1>
             <Transaction_2>
                <TransDate>03/21/2020</TransDate>
                <TransTime>02:59:25</TransTime>
```

```xml
            <TransName>SALE</TransName>
             <InvoiceNo>000075</InvoiceNo>
        <AccountNumber>************0057</AccountNumber>
        <AuthNumber>552442</AuthNumber>
        <ReferenceNumber>008610500941</ReferenceNumber>
        <TransAmount>$10.00</TransAmount>
        <TotalAmount>$0.00</TransAmount>
        <NetworkID>000000</NetworkID>
        <ReversedAmount>$10.00</ReversedAmount>
    </Transaction_2>
    <TerminalTotals>
        <BatchTotalRecords>2</BatchTotalRecords>
        <TotalVoidCount>0</TotalVoidCount>
        <NetSales>$10.00</NetSales>
    </TerminalTotals>
    </Report_1>
    <Report_2>
    <ReportLabel>BATCH TOTAL REPORT</ReportLabel>
 <CardTypeCount>1</CardTypeCount>
    <CardType_1>
 <CardTypeLabel>`D</CardTypeLabel>
 <Transaction_1>
            <TransType>Sale</TransName>
            <RecordCount>1</RecordCount>
        <Amount>$5.00</Amount>
    </Transaction_1>
    <Transaction_2>
            <TransType>Return</TransName>
            <RecordCount>0</RecordCount>
        <Amount>$0.00</Amount>
    </Transaction_2>
    <Transaction_3>
            <TransType>Void Sale</TransName>
            <RecordCount>0</RecordCount>
        <Amount>$0.00</Amount>
    </Transaction_3>
    <Transaction_4>
            <TransType>Void Return</TransName>
            <RecordCount>0</RecordCount>
        <Amount>$0.00</Amount>
    </Transaction_4>
 <Totals>
      <RecordCount>1</RecordCount>
      <Amount>$5.00</Amount>
    </Totals>
 </CardType_1>
<BatchTotals>
    <BatchSaleCount>1</BatchSaleCount>
    <BatchSaleAmount>$10.00</BatchSaleAmount>
```

```
            <BatchRefundCount>0</BatchRefundCount>
            <BatchRefundAmount>$0.00</BatchRefundAmount>
            <BatchVoidSaleCount>0</BatchVoidSaleCount>
            <BatchVoidSaleAmount>$0.00</BatchVoidSaleAmount>
            <BatchVoidRefundCount>0</BatchVoidRefundCount>
            <BatchVoidRefundAmount>$0.00</BatchVoidRefundAmount>
          <BatchTotalAmount >0</BatchTotalAmount>
        </BatchTotals>
        </Report_2>
      </ReportBody>
    </XMLReceipt>
  </XMLResponse>
```

- The following format applies to PayFacto processor:

```
<XMLResponse>
    <XMLCmdType>Transaction</XMLCmdType>
    <XMLBody>
        <TransType>Force Close Batch</TransType>
    </XMLBody>
    <XMLReceipt>
        <ReportHeader>
            <ReceiptHeader1>NONE</ReceiptHeader1>
            <ReceiptHeader2>NONE</ReceiptHeader2>
            <ReceiptHeader3>NONE</ReceiptHeader3>
            <ReceiptHeader4>NONE</ReceiptHeader4>
            <ReceiptHeader5>NONE</ReceiptHeader5>
            <ReceiptHeader6>NONE</ReceiptHeader6>
            <TransDate>04/22/19</TransDate>
            <TransTime>06:43:37</TransTime>
            <BatchNo>0059</BatchNo>
            <TerminalID>AMP00006</TerminalID>
        </ReportHeader>
        <ReportBody>
            <ReportLabel1>HOST TOTALS REPORT
            <CardTypeCount>6</CardTypeCount>
                <CardType_1>
                    <CardTypeLabel>MCRD</CardTypeLabel>
                    <RecordCount>1</RecordCount>
                    <Amount>$          1.00</Amount>
                    <MatchFlag>=</MatchFlag>
                </CardType_1>
                <CardType_2>
                    <CardTypeLabel>VISA</CardTypeLabel>
                    <RecordCount>0</RecordCount>
                    <Amount>$          0.00</Amount>
                    <MatchFlag>=</MatchFlag>
                </CardType_2>
```

```
        <CardType_3>
            <CardTypeLabel>DISC</CardTypeLabel>
            <RecordCount>0</RecordCount>
            <Amount>$            0.00</Amount>
            <MatchFlag>=</MatchFlag>
        </CardType_3>
        <CardType_4>
            <CardTypeLabel>DEBT</CardTypeLabel>
            <RecordCount>0</RecordCount>
            <Amount>$            0.00</Amount>
            <MatchFlag>=</MatchFlag>
        </CardType_4>
        <CardType_5>
            <CardTypeLabel>JCB</CardTypeLabel>
            <RecordCount>0</RecordCount>
            <Amount>$            0.00</Amount>
            <MatchFlag>=</MatchFlag>
        </CardType_5>
        <CardType_6>
            <CardTypeLabel>AMEX</CardTypeLabel>
            <RecordCount>0</RecordCount>
            <Amount>$            0.00</Amount>
            <MatchFlag>=</MatchFlag>
        </CardType_6>
        <Total>$            1.00   </Total>
        <BatchRespText>== BATCH TOTALS MATCH ==</BatchRespText>
</ReportLabel1>
<ReportLabel2>TERMINAL TOTALS REPORT
<CardTypeCount>1</CardTypeCount>
        <CardType_1>
            <CardTypeLabel>MCRD</CardTypeLabel>
            <Transaction_1>
                <TransType>Purchase/Compl</TransType>
                <RecordCount>1</RecordCount>
                <Amount>$            1.00</Amount>
            </Transaction_1>
            <Transaction_2>
                <TransType>Refund</TransType>
                <RecordCount>0</RecordCount>
                <Amount>$            0.00</Amount>
            </Transaction_2>
            <Transaction_3>
                <TransType>Void Purchase</TransType>
                <RecordCount>0</RecordCount>
                <Amount>$            0.00</Amount>
            </Transaction_3>
            <Transaction_4>
                <TransType>Void Refund</TransType>
                <RecordCount>0</RecordCount>
```

```
                        <Amount>$            0.00</Amount>
                    </Transaction_4>
                    <Totals>
                        <RecordCount>1</RecordCount>
                        <Amount>$            1.00</Amount>
                    </Totals>
                </CardType_1>
                <BatchTotals>
                    <BatchSaleCount>0</BatchSaleCount>
                    <BatchSaleAmount>$            0.00</BatchSaleAmount>
                    <BatchTipCount>0</BatchTipCount>
                    <BatchTipAmount>$            0.00</BatchTipAmount>
                    <BatchCashbackCount>0</BatchCashbackCount>
                    <BatchCashbackAmount>$
0.00</BatchCashbackAmount>
                    <BatchTaxCount>0</BatchTaxCount>
                    <BatchTaxAmount>$            0.00</BatchTaxAmount>
                    <BatchSurchargeCount>0</BatchSurchargeCount>
                    <BatchSurchargeAmount>$
0.00</BatchSurchargeAmount>
                    <BatchRefundCount>0</BatchRefundCount>
                    <BatchRefundAmount>$
0.00</BatchRefundAmount>
                    <BatchVoidSaleCount>0</BatchVoidSaleCount>
                    <BatchVoidSaleAmount>$
0.00</BatchVoidSaleAmount>
                    <BatchVoidRefundCount>0</BatchVoidRefundCount>
                    <BatchVoidRefundAmount>$
0.00</BatchVoidRefundAmount>
                    <BatchTotalAmount>$         0.00</BatchTotalAmount>
                </BatchTotals>
            </ReportLabel2>
            <ReportLabel3>FORCE CLOSE BATCH REPORT
            <BatchRespText>FORCE CLOSE BATCH SUCCESSFUL</BatchRespText>
            </ReportLabel3>
        </ReportBody>
        <ReportFooter>
            <ReceiptFooter1>Footer1</ReceiptFooter1>
            <ReceiptFooter2>Footer2</ReceiptFooter2>
            <ReceiptFooter3>Footer3</ReceiptFooter3>
            <ReceiptFooter4>Footer4</ReceiptFooter4>
            <ReceiptFooter5>Footer5</ReceiptFooter5>
            <ReceiptFooter6>Footer6</ReceiptFooter6>
        </ReportFooter>
    </XMLReceipt>
</XMLResponse>
```

- The returned XML format report is not supported by RapidConnect and should be implemented in the JSON format, as demonstrated in the following code sample:

```json
{
    "layout": {
        "format": "condensed",
        "fontmaxchars": [
            {
                "regular": 34
            },
            {
                "emphasis": 24
            },
            {
                "detail": 42
            }
        ]
    },
    "lines": [
        {
            "1": [
                {
                    "type": "image",
                    "align": "c",
                    "image": "AMPLogoPrn.png"
                }
            ]
        },
        {
            "2": [
                {
                    "type": "line",
                    "align": "c",
                    "size": "emphasis",
                    "txt": "Merchant Name"
                }
            ]
        },
        {
            "3": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Merchant Address 1"
                }
            ]
        },
        {
            "4": [
                {
```

```
                "type": "line",
                "align": "c",
                "txt": "Merchant Address 2"
            }
        ]
    },
    {
        "5": [
            {
                "type": "line",
                "align": "c",
                "txt": "Merchant Address 3"
            }
        ]
    },
    {
        "6": [
            {
                "type": "line",
                "align": "c",
                "txt": "Customer Service Phone Number"
            }
        ]
    },
    {
        "7": [
            {
                "type": "line",
                "align": "c",
                "txt": "123-456-7890"
            }
        ]
    },
    {
        "8": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "9": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "10": [
```

```
                {
                    "type": "line",
                    "align": "c",
                    "txt": "TERMINAL DETAIL REPORT"
                }
            ]
        },
        {
            "11": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "12": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "10/01/2020",
                    "txt2": "03:39PM"
                }
            ]
        },
        {
            "13": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "14": [
                {
                    "type": "line",
                    "align": "l",
                    "txt": "Merchant ID: RCTST0000045177"
                }
            ]
        },
        {
            "15": [
                {
                    "type": "line",
                    "align": "l",
                    "txt": "Term ID: 003"
                }
            ]
        },
```

```json
{
    "16": [
        {
            "type": "line",
            "align": "l",
            "txt": "From: 10/01/2020, 02:25PM"
        }
    ]
},
{
    "17": [
        {
            "type": "line",
            "align": "l",
            "txt": "To: 10/01/2020, 03:19PM"
        }
    ]
},
{
    "18": [
        {
            "type": "line",
            "align": "l",
            "txt": "Batch #: 5"
        }
    ]
},
{
    "19": [
        {
            "type": "nextline"
        }
    ]
},
{
    "20": [
        {
            "type": "line",
            "align": "c",
            "txt": "--------------------------------"
        }
    ]
},
{
    "21": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Date: 10/01/2020",
```

```
                "txt2": "Time: 02:25PM"
            }
        ]
    },
    {
        "22": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Inv #: 00000036",
                "txt2": "SALE"
            }
        ]
    },
    {
        "23": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Card #: ",
                "txt2": "************0119"
            }
        ]
    },
    {
        "24": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Auth #: ",
                "txt2": "014589"
            }
        ]
    },
    {
        "25": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Ref #: ",
                "txt2": "1664441189"
            }
        ]
    },
    {
        "26": [
            {
                "type": "line",
                "align": "c",
```

```
                    "txt": "Amount:              $        10.00"
                }
            ]
        },
        {
            "27": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Tip:                 $         0.00"
                }
            ]
        },
        {
            "28": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "TOTAL:               $        10.00"
                }
            ]
        },
        {
            "29": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "--------------------------------"
                }
            ]
        },
        {
            "30": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Date: 10/01/2020",
                    "txt2": "Time: 02:28PM"
                }
            ]
        },
        {
            "31": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Inv #: 00000037",
                    "txt2": "SALE"
                }
```

```
            ]
        },
        {
            "32": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Card #: ",
                    "txt2": "************0119"
                }
            ]
        },
        {
            "33": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Auth #: ",
                    "txt2": "061013"
                }
            ]
        },
        {
            "34": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Ref #: ",
                    "txt2": "3833201514"
                }
            ]
        },
        {
            "35": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Amount:                 $          10.00"
                }
            ]
        },
        {
            "36": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Tip:                    $           0.00"
                }
            ]
```

```
        },
        {
            "37": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "TOTAL:                  $        10.00"
                }
            ]
        },
        {
            "38": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "--------------------------------"
                }
            ]
        },
        {
            "39": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Date: 10/01/2020",
                    "txt2": "Time: 02:29PM"
                }
            ]
        },
        {
            "40": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Inv #: 00000037",
                    "txt2": "FORCE POST"
                }
            ]
        },
        {
            "41": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Card #: ",
                    "txt2": "************1165"
                }
            ]
        },
```

```
{
    "42": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Auth #: ",
            "txt2": "FREED "
        }
    ]
},
{
    "43": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Ref #: ",
            "txt2": "3367740090"
        }
    ]
},
{
    "44": [
        {
            "type": "line",
            "align": "c",
            "txt": "Amount:                $      2,500.00"
        }
    ]
},
{
    "45": [
        {
            "type": "line",
            "align": "c",
            "txt": "Tip:                   $          0.00"
        }
    ]
},
{
    "46": [
        {
            "type": "line",
            "align": "c",
            "txt": "TOTAL:                 $      2,500.00"
        }
    ]
},
{
    "47": [
```

```
                    {
                        "type": "line",
                        "align": "c",
                        "txt": "--------------------------------"
                    }
                ]
            },
            {
                "48": [
                    {
                        "type": "line",
                        "align": "lr",
                        "txt1": "Date: 10/01/2020",
                        "txt2": "Time: 02:30PM"
                    }
                ]
            },
            {
                "49": [
                    {
                        "type": "line",
                        "align": "lr",
                        "txt1": "Inv #: 00000038",
                        "txt2": "REFUND",
                        "inverse": true
                    }
                ]
            },
            {
                "50": [
                    {
                        "type": "line",
                        "align": "lr",
                        "txt1": "Card #: ",
                        "txt2": "************1165"
                    }
                ]
            },
            {
                "51": [
                    {
                        "type": "line",
                        "align": "lr",
                        "txt1": "Ref #: ",
                        "txt2": "2556864649"
                    }
                ]
            },
            {
```

```
    "52": [
        {
            "type": "line",
            "align": "c",
            "txt": "Amount:                $     2,500.00"
        }
    ]
},
{
    "53": [
        {
            "type": "line",
            "align": "c",
            "txt": "Tip:                   $         0.00"
        }
    ]
},
{
    "54": [
        {
            "type": "line",
            "align": "c",
            "txt": "TOTAL:                 $     2,500.00"
        }
    ]
},
{
    "55": [
        {
            "type": "line",
            "align": "c",
            "txt": "--------------------------------"
        }
    ]
},
{
    "56": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Date: 10/01/2020",
            "txt2": "Time: 02:53PM"
        }
    ]
},
{
    "57": [
        {
            "type": "line",
```

```json
                "align": "lr",
                "txt1": "Inv #: 00000039",
                "txt2": "COMPLETION"
            }
        ]
    },
    {
        "58": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Card #: ",
                "txt2": "************5439"
            }
        ]
    },
    {
        "59": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Auth #: ",
                "txt2": "036102"
            }
        ]
    },
    {
        "60": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Ref #: ",
                "txt2": "0270165609"
            }
        ]
    },
    {
        "61": [
            {
                "type": "line",
                "align": "c",
                "txt": "Amount:            $        26.00"
            }
        ]
    },
    {
        "62": [
            {
                "type": "line",
```

```
                "align": "c",
                "txt": "Tip:                    $          0.00"
            }
        ]
    },
    {
        "63": [
            {
                "type": "line",
                "align": "c",
                "txt": "TOTAL:                  $         26.00"
            }
        ]
    },
    {
        "64": [
            {
                "type": "line",
                "align": "c",
                "txt": "--------------------------------"
            }
        ]
    },
    {
        "65": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Date: 10/01/2020",
                "txt2": "Time: 03:01PM"
            }
        ]
    },
    {
        "66": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Inv #: 00000041",
                "txt2": "SALE"
            }
        ]
    },
    {
        "67": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Card #: ",
```

```
            "txt2": "************0010"
        }
    ]
},
{
    "68": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Auth #: ",
            "txt2": "029782"
        }
    ]
},
{
    "69": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Ref #: ",
            "txt2": "3404958345"
        }
    ]
},
{
    "70": [
        {
            "type": "line",
            "align": "c",
            "txt": "Amount:            $      120.00"
        }
    ]
},
{
    "71": [
        {
            "type": "line",
            "align": "c",
            "txt": "Tip:               $        0.00"
        }
    ]
},
{
    "72": [
        {
            "type": "line",
            "align": "c",
            "txt": "TOTAL:             $      120.00"
        }
```

```
            ]
        },
        {
            "73": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "--------------------------------"
                }
            ]
        },
        {
            "74": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Date: 10/01/2020",
                    "txt2": "Time: 03:02PM"
                }
            ]
        },
        {
            "75": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Inv #: 00000042",
                    "txt2": "SALE"
                }
            ]
        },
        {
            "76": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Card #: ",
                    "txt2": "************0010"
                }
            ]
        },
        {
            "77": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Auth #: ",
                    "txt2": "000323"
                }
```

```
                ]
        },
        {
            "78": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Ref #: ",
                    "txt2": "2844462604"
                }
            ]
        },
        {
            "79": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Amount:              $       144.00"
                }
            ]
        },
        {
            "80": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Tip:                 $         0.00"
                }
            ]
        },
        {
            "81": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "TOTAL:               $       144.00"
                }
            ]
        },
        {
            "82": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "--------------------------------"
                }
            ]
        },
        {
```

```
        "83": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "84": [
            {
                "type": "line",
                "align": "c",
                "txt": "TERMINAL TOTALS"
            }
        ]
    },
    {
        "85": [
            {
                "type": "line",
                "align": "c",
                "txt": "--------------------------------"
            }
        ]
    },
    {
        "86": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Total Records:",
                "txt2": "7"
            }
        ]
    },
    {
        "87": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Voided Transactions:",
                "txt2": "0"
            }
        ]
    },
    {
        "88": [
            {
                "type": "line",
                "align": "c",
```

```
                            "txt": "Total Net Sales:     $         310.00"
                }
            ]
        },
        {
            "89": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Total Tip:            $          0.00"
                }
            ]
        },
        {
            "90": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Total Cashback:       $          0.00"
                }
            ]
        },
        {
            "91": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "-------------------------------"
                }
            ]
        },
        {
            "92": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "93": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "END OF REPORT"
                }
            ]
        },
        {
            "94": [
```

```
                {
                    "type": "line",
                    "align": "c",
                    "size": "detail",
                    "txt": "AMP POS Version"
                }
            ]
        },
        {
            "95": [
                {
                    "type": "line",
                    "align": "c",
                    "size": "detail",
                    "txt": "02.02.027_FDRha01.00.000"
                }
            ]
        },
        {
            "96": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "97": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "98": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "99": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "100": [
                {
```

```
                          "type": "nextline"
                   }
            ]
     },
     {
            "101": [
                   {
                          "type": "nextline"
                   }
            ]
     },
     {
            "102": [
                   {
                          "type": "image",
                          "align": "c",
                          "image": "AMPLogoPrn.png"
                   }
            ]
     },
     {
            "103": [
                   {
                          "type": "line",
                          "align": "c",
                          "size": "emphasis",
                          "txt": "Merchant Name"
                   }
            ]
     },
     {
            "104": [
                   {
                          "type": "line",
                          "align": "c",
                          "txt": "Merchant Address 1"
                   }
            ]
     },
     {
            "105": [
                   {
                          "type": "line",
                          "align": "c",
                          "txt": "Merchant Address 2"
                   }
            ]
     },
     {
```

```json
    "106": [
        {
            "type": "line",
            "align": "c",
            "txt": "Merchant Address 3"
        }
    ]
},
{
    "107": [
        {
            "type": "line",
            "align": "c",
            "txt": "Customer Service Phone Number"
        }
    ]
},
{
    "108": [
        {
            "type": "line",
            "align": "c",
            "txt": "123-456-7890"
        }
    ]
},
{
    "109": [
        {
            "type": "nextline"
        }
    ]
},
{
    "110": [
        {
            "type": "nextline"
        }
    ]
},
{
    "111": [
        {
            "type": "line",
            "align": "c",
            "txt": "TERMINAL TOTALS REPORT"
        }
    ]
},
```

```
{
    "112": [
        {
            "type": "nextline"
        }
    ]
},
{
    "113": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "10/01/2020",
            "txt2": "03:39PM"
        }
    ]
},
{
    "114": [
        {
            "type": "nextline"
        }
    ]
},
{
    "115": [
        {
            "type": "line",
            "align": "l",
            "txt": "Merchant ID: RCTST0000045177"
        }
    ]
},
{
    "116": [
        {
            "type": "line",
            "align": "l",
            "txt": "Term ID: 003"
        }
    ]
},
{
    "117": [
        {
            "type": "line",
            "align": "l",
            "txt": "From: 10/01/2020, 02:25PM"
        }
```

```
            ]
        },
        {
            "118": [
                {
                    "type": "line",
                    "align": "l",
                    "txt": "To: 10/01/2020, 03:02PM"
                }
            ]
        },
        {
            "119": [
                {
                    "type": "line",
                    "align": "l",
                    "txt": "Batch #: 5"
                }
            ]
        },
        {
            "120": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "121": [
                {
                    "type": "line",
                    "align": "l",
                    "txt": "VISA"
                }
            ]
        },
        {
            "122": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "--------------------------------"
                }
            ]
        },
        {
            "123": [
                {
                    "type": "line",
```

```
                    "align": "c",
                    "txt": "Transaction       Count        Amount"
                }
            ]
        },
        {
            "124": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "---------------------------------"
                }
            ]
        },
        {
            "125": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Sale                 5        $  310.00"
                }
            ]
        },
        {
            "126": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Refund               0        $    0.00"
                }
            ]
        },
        {
            "127": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Void Sale            0        $    0.00"
                }
            ]
        },
        {
            "128": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Void Refund          0        $    0.00"
                }
            ]
```

```
    },
    {
        "129": [
            {
                "type": "line",
                "align": "c",
                "txt": "--------------------------------"
            }
        ]
    },
    {
        "130": [
            {
                "type": "line",
                "align": "c",
                "txt": "TOTAL:            5       $  310.00"
            }
        ]
    },
    {
        "131": [
            {
                "type": "line",
                "align": "c",
                "txt": "--------------------------------"
            }
        ]
    },
    {
        "132": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "133": [
            {
                "type": "line",
                "align": "l",
                "txt": "MASTERCARD"
            }
        ]
    },
    {
        "134": [
            {
                "type": "line",
                "align": "c",
```

```
                    "txt": "--------------------------------"
                }
            ]
        },
        {
            "135": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Transaction      Count        Amount"
                }
            ]
        },
        {
            "136": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "--------------------------------"
                }
            ]
        },
        {
            "137": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Sale              1        2,500.00"
                }
            ]
        },
        {
            "138": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Refund            1        2,500.00"
                }
            ]
        },
        {
            "139": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Void Sale         0        $  0.00"
                }
            ]
        },
```

```
{
    "140": [
        {
            "type": "line",
            "align": "c",
            "txt": "Void Refund       0          $  0.00"
        }
    ]
},
{
    "141": [
        {
            "type": "line",
            "align": "c",
            "txt": "--------------------------------"
        }
    ]
},
{
    "142": [
        {
            "type": "line",
            "align": "c",
            "txt": "TOTAL:              2          $  0.00"
        }
    ]
},
{
    "143": [
        {
            "type": "line",
            "align": "c",
            "txt": "--------------------------------"
        }
    ]
}
]
}
```

4.4.8   FORCE POST

This method calls BaseApp's Force Post transaction.

Prototype	`public void performForcePost();`
Mandatory Fields	**Auto-Print** **Card Entry Method**

(See **Setting the Fields** for details)	**Card Number (PAN)**[1]
	Expiry Date[1]
	Card Security Code / Card Verification Value[1]
	Authorization Code[1]
	Transaction ID[1]
	Base Amount
	Card Additional Data[7]
Optional Fields (See **Setting the Fields** for details)	**Address**
	Zip Code
	User-Defined Echo Data
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_MERCH_NAME
	KEY_RESPONSE_MERCH_ADD1
	KEY_RESPONSE_MERCH_ADD2
	KEY_RESPONSE_CUST_SERV_PHONE
	KEY_RESPONSE_TIME
	KEY_RESPONSE_DATE
	KEY_RESPONSE_TID
	KEY_RESPONSE_MID
	KEY_RESPONSE_TRANSNAME
	KEY_RESPONSE_CARD_HOLDER_NAME
	KEY_RESPONSE_CARDLABEL
	KEY_RESPONSE_PAN
	KEY_RESPONSE_TRACK1[6]
	KEY_RESPONSE_TRACK2[6]
	KEY_RESPONSE_ENTRYMODE
	KEY_RESPONSE_CVM
	KEY_RESPONSE_INVOICENUM

	KEY_RESPONSE_CLERKID
	KEY_RESPONSE_STORENUM
	KEY_RESPONSE_TRACENUM
	KEY_RESPONSE_BATCHNUM
	KEY_RESPONSE_USER_DEFINED_ECHO_DATA
	KEY_RESPONSE_BASEAMT
	KEY_RESPONSE_TOTALAMT
	KEY_RESPONSE_TVR[4]
	KEY_RESPONSE_AID[4]
	KEY_RESPONSE_AUTHCODE[4]
	KEY_RESPONSE_SEQUENCENUM[4]
	KEY_RESPONSE_CURRENCY
	KEY_RESPONSE_IAD[4]
	KEY_RESPONSE_TSI[4]
	KEY_RESPONSE_ARC[4]
	KEY_RESPONSE_CODE[4]
	KEY_RESPONSE_TEXT[4]
	KEY_RESPONSE_APPPREFNAME[4]
	KEY_RESPONSE_TC[4]
	KEY_RESPONSE_HOSTTIMESTAMP[4]
	KEY_RESPONSE_TRANSREF[4,6]
	KEY_RESPONSE_RESULTCODE
	KEY_RESPONSE_HEADER1
	KEY_RESPONSE_HEADER2
	KEY_RESPONSE_HEADER3
	KEY_RESPONSE_HEADER4
	KEY_RESPONSE_HEADER5

	KEY_RESPONSE_HEADER6
	KEY_RESPONSE_FOOTER1
	KEY_RESPONSE_FOOTER2
	KEY_RESPONSE_FOOTER3
	KEY_RESPONSE_FOOTER4
	KEY_RESPONSE_FOOTER5
	KEY_RESPONSE_FOOTER6
	KEY_RESPONSE_APP_VERSION
	KEY_RESPONSE_REVERSAL_AMT[4]
	KEY_RESPONSE_CODE_ISO[4]
	KEY_RESPONSE_SWVER[4]
	KEY_RESPONSE_ISSUERNAME[5]
	KEY_RESPONSE_GATEWAYTRANSID[5]
	KEY_RESPONSE_BANKRESPONSECODE[5]
	KEY_RESPONSE_AVAILABLE_AMT[5]
	KEY_RESPONSE_JSONRCPT[6]
	KEY_RESPONSE_EMV_CAPK_INDEX_KEY
	KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended[6]

4.4.9   GET CARD DATA

This method retrieves the card data from the transaction.

Prototype	`public void performGetCardData();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields	**User-Defined Echo Data**

(See **Setting the Fields** for details)	
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_TRACK1 KEY_RESPONSE_TRACK2 KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

4.4.10   GET CONFIGURATION TAG VALUE

This method retrieves the value of a specific tag in the internal configuration of BaseApp.

Prototype	`public void performGetTagValue();`
Mandatory Fields (See **Setting the Fields** for details)	**Configuration Tag**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_TAGVALUE KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

4.4.11   GET TOKEN DATA

This method retrieves the token data after performing an online transaction.

Prototype	`public void performGetToken();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_TOKEN_DATA KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_TIME KEY_RESPONSE_DATE KEY_RESPONSE_TID KEY_RESPONSE_MID KEY_RESPONSE_TRANSNAME KEY_RESPONSE_CARD_HOLDER_NAME KEY_RESPONSE_CARDLABEL KEY_RESPONSE_PAN KEY_RESPONSE_EXPIRYDATE KEY_RESPONSE_TRACK1 KEY_RESPONSE_TRACK2 KEY_RESPONSE_CODE KEY_RESPONSE_TRANSREF KEY_RESPONSE_HEADER1[6] KEY_RESPONSE_HEADER2[6]

	KEY_RESPONSE_HEADER3[6]
	KEY_RESPONSE_HEADER4[6]
	KEY_RESPONSE_HEADER5[6]
	KEY_RESPONSE_TRACENUM[6]
	KEY_RESPONSE_SEQUENCENUM[6]
	KEY_RESPONSE_EMV_APPLABEL[6]
	KEY_RESPONSE_EMV_APPLPAN[6]
	KEY_RESPONSE_EMV_CURRENCYCODE[6]
	KEY_RESPONSE_EMV_PANSEQNUM[6]
	KEY_RESPONSE_EMV_AIP[6]
	KEY_RESPONSE_EMV_TVR[6]
	KEY_RESPONSE_EMV_TRANSDATE[6]
	KEY_RESPONSE_EMV_TRANSTYPE[6]
	KEY_RESPONSE_EMV_AMT_AUTH[6]
	KEY_RESPONSE_EMV_OTH_AMT[6]
	KEY_RESPONSE_APP_USAGE_CTRL[6]
	KEY_RESPONSE_EMV_IAC_ONLINE[6]
	KEY_RESPONSE_EMV_IAC_DEFAULT[6]
	KEY_RESPONSE_EMV_IAC_DENIAL[6]
	KEY_RESPONSE_APPPREFNAME[6]
	KEY_RESPONSE_EMV_TERM_CCODE[6]
	KEY_RESPONSE_EMV_AC[6]
	KEY_RESPONSE_EMV_CID[6]
	KEY_RESPONSE_EMV_IAD[6]
	KEY_RESPONSE_EMV_CVM[6]
	KEY_RESPONSE_EMV_ATC[6]
	KEY_RESPONSE_HEADER6[6]

	KEY_RESPONSE_FOOTER1[6]
	KEY_RESPONSE_FOOTER2[6]
	KEY_RESPONSE_FOOTER3[6]
	KEY_RESPONSE_FOOTER4[6]
	KEY_RESPONSE_FOOTER5[6]
	KEY_RESPONSE_FOOTER6[6]
	KEY_RESPONSE_JSONRCPT[6]
	KEY_RESPONSE_DEMO_MODE
Application Type	Attended[6], Unattended

4.4.12 INITIALIZE BACKGROUND JOBS

This function initiates the background processes of BaseApp. It is required to call this intent only once after first installation of BaseApp. This intent does not need to be called every single launch/resume of the integrating non-payment application. Note that triggering this intent will initiate the startup process of the BaseApp such as Auto TMS Update and Auto Terminal Login.

Prototype	```public boolean performInitializeBackgroundJobs ();```
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	None
Key Response (Refer to **Appendix A** for description of each key)	None
Return Value	true – background process is initialized successfully. false - background process is not initialized successfully.
Application Type	Unattended, Attended

4.4.13 LAST EMV TRANSACTION DETAILS

This method calls BaseApp's Last EMV Transaction print function.

Prototype	`public void performLastChipTransaction();`
Mandatory Fields (See **Setting the Fields** for details)	Auto-Print
Optional Fields (See **Setting the Fields** for details)	User-Defined Echo Data
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_XML_DATA KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_JSONRCPT[6] KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

The following describes the XML format in KEY_RESPONSE_XMLDATA:

```
<XMLResponse>
    <XMLCmdType>LastTransEmvDetails</XMLCmdType>
    <XMLReceipt>
      <ReportHeader>
          <ReportLabel>ACQUIRER DETAIL REPORT</ReportLabel>
          <ReceiptHeader1>AMP TEMP TERMINAL TESTING</ReceiptHeader1>
          <ReceiptHeader2>15 WERTHEIM CRT. UNITS 401-403</ReceiptHeader2>
          <ReceiptHeader3>RICHMOND HILL ON L4B3H7</ReceiptHeader3>
          <ReceiptHeader4>AMP TESTING KRISTENE CONCHA</ReceiptHeader4>
          <TransDate>06/26/2019</TransDate>
          <TransTime>02:58:15</TransTime>
          <TerminalID>71134104</TerminalID>
      </ReportHeader>
      <ReportBody>
          <PAN>
              <TagName>5A PAN</TagName>
              <TagValue>**0119</TagValue>
          </PAN>
```

```
<AIP>
    <TagName>82 AIP</TagName>
    <TagValue>A0000000031010</TagValue>
</AIP>
<DedicatedFilename>
    <TagName>84 Dedicated file name</TagName>
</DedicatedFilename>
<TransactionDate>
    <TagName>9A Transaction Date</TagName>
    <TagValue>180719</TagValue>
</TransactionDate>
<TransactionTime>
    <TagName>9F21 Transaction Time</TagName>
    <TagValue>180719</TagValue>
</TransactionTime>
<TransactionType>
    <TagName>9C Transaction Type</TagName>
    <TagValue>00</TagValue>
</TransactionType>
<PanSeqNum>
    <TagName>5F34 Pan Seq Num</TagName>
    <TagValue>01</TagValue>
</PanSeqNum>
<TranCurrencyCode>
    <TagName>5F2A Tran Currency Code</TagName>
    <TagValue>0124</TagValue>
</TranCurrencyCode>
<AuthorizedAmount>
    <TagName>9F02 Amount, authorized</TagName>
    <TagValue>($ 10.00)</TagValue>
</AuthorizedAmount>
<OtherAmount>
    <TagName>9F03 Amount, Other</TagName>
    <TagValue>000000000000</TagValue>
</OtherAmount>
<ICCAppVerNum>
    <TagName>9F08 ICC App Ver Num</TagName>
</ICCAppVerNum>
<TermAppVerNum>
    <TagName>9F09 Term App Ver Num</TagName>
    <TagValue>0001</TagValue>
</TermAppVerNum>
<TermCountryCode>
    <TagName>9F1A Term Country Code</TagName>
    <TagValue>0124</TagValue>
</TermCountryCode>
<TermCapabilities>
    <TagName>9F33 Terminal Capabilities</TagName>
    <TagValue>E0 B0 C8</TagValue>
```

```xml
            </TermCapabilities>
            <CVMResults>
                <TagName>9F34 CVM Results</TagName>
                <TagValue>5E0300</TagValue>
            </CVMResults>
            <TerminalType>
                <TagName>9F35 Terminal Type</TagName>
                <TagValue>22</TagValue>
            </TerminalType>
            <ATC>
                <TagName>9F36 ATC</TagName>
                <TagValue>00DC</TagValue>
            </ATC>
            <UnpredictableNum>
                <TagName>9F37 Unpredictable Num</TagName>
                <TagValue>2E9740B3</TagValue>
            </UnpredictableNum>
            <IACDefault>
                <TagName>9F0D IAC Default</TagName>
                <TagValue>B050808800</TagValue>
            </IACDefault>
            <IACDenial>
                <TagName>9F0E IAC Denial</TagName>
                <TagValue>0000000000</TagValue>
            </IACDenial>
            <IACOnline>
                <TagName>9F0F IAC Online</TagName>
                <TagValue>B050809800</TagValue>
            </IACOnline>
            <TACDefault>
                <TagName>TAC Default</TagName>
                <TagValue>B050809800</TagValue>
            </TACDefault>
            <TACDenial>
                <TagName>TAC Denial</TagName>
                <TagValue>B050809800</TagValue>
            </TACDenial>
            <TACOnline>
                <TagName>TAC Online</TagName>
                <TagValue>B050809800</TagValue>
            </TACOnline>
        </ReportBody>
    </XMLReceipt>
</XMLResponse>
```

The returned XML format report is not supported by RapidConnect and should be implemented in JSON Format.

```
{
    "layout":    {
            "format":        "condensed",
            "fontmaxchars": [{
                            "regular":        34
                }, {
                            "emphasis":      24
                }, {
                            "detail":        42
                }]
    },
    "lines":     [{
            "1":     [{
                            "type": "image",
                            "align":"c",
                            "image":"AMPLogoPrn.png"
                    }]
        }, {
            "2":     [{
                            "type": "line",
                            "align":"c",
                            "size": "emphasis",
                            "txt":   "Merchant Name"
                    }]
        }, {
            "3":     [{
                            "type": "line",
                            "align":"c",
                            "txt":   "Merchant Address 1"
                    }]
        }, {
            "4":     [{
                            "type": "line",
                            "align":"c",
                            "txt":   "Merchant Address 2"
                    }]
        }, {
            "5":     [{
                            "type": "line",
                            "align":"c",
                            "txt":   "Merchant Address 3"
                    }]
        }, {
            "6":     [{
                            "type": "line",
                            "align":"c",
```

```
                                        "txt":  "Customer Service Phone Number"
                        }]
        }, {
            "7":      [{
                                "type": "line",
                                "align":"c",
                                "txt":  "123-456-7890"
                        }]
        }, {
            "8":      [{
                                "type": "nextline"
                        }]
        }, {
            "9":      [{
                                "type": "nextline"
                        }]
        }, {
            "10":     [{
                                "type": "line",
                                "align":"c",
                                "txt":  "CHIP TRANSACTION REPORT"
                        }]
        }, {
            "11":     [{
                                "type": "nextline"
                        }]
        }, {
            "12":     [{
                                "type": "line",
                                "align":"lr",
                                "txt1": "10/01/2020",
                                "txt2": "03:28PM"
                        }]
        }, {
            "13":     [{
                                "type": "nextline"
                        }]
        }, {
            "14":     [{
                                "type": "line",
                                "align":"lr",
                                "txt1": "TID: 003",
                                "txt2": "10/01/20   03:28PM"
                        }]
        }, {
            "15":     [{
                                "type": "nextline"
                        }]
        }, {
```

```
    "16":    [{
                    "type": "line",
                    "align":"c",
                    "txt": "5A    PAN            ************0010"
            }]
}, {
    "17":    [{
                    "type": "nextline"
            }]
}, {
    "18":    [{
                    "type": "line",
                    "align":"c",
                    "txt":  "82    AIP                            1C00"
            }]
}, {
    "19":    [{
                    "type": "nextline"
            }]
}, {
    "20":    [{
                    "type": "line",
                    "align":"c",
                    "txt":"84    Dedicated file name            "
            }]
}, {
    "21":    [{
                    "type": "line",
                    "align":"c",
                    "txt": "     A0000000031010                "
            }]
}, {
    "22":    [{
                    "type": "nextline"
            }]
}, {
    "23":    [{
                    "type": "line",
                    "align":"c",
                    "txt": "9A    Transaction Date      201001"
            }]
}, {
    "24":    [{
                    "type": "nextline"
            }]
}, {
    "25":    [{
                    "type": "line",
                    "align":"c",
```

```
                              "txt": "9F21 Transaction Time       150108"
              }]
    }, {
       "26":    [{

                              "type": "nextline"
                 }]
    }, {
       "27":    [{

                              "type": "line",
                              "align":"c",
                              "txt":"9C   Transaction Type          00"
              }]
    }, {
       "28":    [{

                              "type": "nextline"
              }]
    }, {
       "29":    [{

                              "type": "line",
                              "align":"c",
                              "txt": "5F34 PAN Seq Num              01"
              }]
    }, {
       "30":    [{

                              "type": "nextline"
              }]
    }, {
       "31":    [{

                              "type": "line",
                              "align":"c",
                              "txt": "5F2A Tran Currency Code      0840"
              }]
    }, {
       "32":    [{

                              "type": "nextline"
              }]
    }, {
       "33":    [{

                              "type": "line",
                              "align":"c",
                              "txt": "9F02 Amount, authorize000000012000"
              }]
    }, {
       "34":    [{

                              "type": "line",
                              "align":"lr",
                              "txt2": "($ 120.00)"
              }]
    }, {
```

```
    "35":    [{
                    "type": "nextline"
            }]
},  {
    "36":    [{
                    "type": "line",
                    "align":"c",
                    "txt": "9F03 Amount, Other    000000000000"
            }]
},  {
    "37":    [{
                    "type": "nextline"
            }]
},  {
    "38":    [{
                    "type": "line",
                    "align":"c",
                    "txt": "9F08 ICC App Ver Num        0096"
            }]
},  {
    "39":    [{
                    "type": "nextline"
            }]
},  {
    "40":    [{
                    "type": "line",
                    "align":"c",
                    "txt": "9F09 Term App Ver Num        008C"
            }]
},  {
    "41":    [{
                    "type": "nextline"
            }]
},  {
    "42":    [{
                    "type": "line",
                    "align":"c",
                    "txt":  "9F1A Term Country Code        0840"
            }]
},  {
    "43":    [{
                    "type": "nextline"
            }]
},  {
    "44":    [{
                    "type": "line",
                    "align":"c",
                    "txt": "9F33 Terminal CapabilitiesE0 F8 C8"
            }]
```

```
        }, {
            "45":    [{
                        "type": "nextline"
                    }]
        }, {
            "46":    [{
                        "type": "line",
                        "align":"c",
                        "txt":   "9F34 CVM Results          1F0002"
                    }]
        }, {
            "47":    [{
                        "type": "nextline"
                    }]
        }, {
            "48":    [{
                        "type": "line",
                        "align":"c",
                        "txt":   "9F35 Terminal Type            22"
                    }]
        }, {
            "49":    [{
                        "type": "nextline"
                    }]
        }, {
            "50":    [{
                        "type": "line",
                        "align":"c",
                        "txt":   "9F36 ATC                    024C"
                    }]
        }, {
            "51":    [{
                        "type": "nextline"
                    }]
        }, {
            "52":    [{
                        "type": "line",
                        "align":"c",
                        "txt":   "9F37 Unpredictable Num   8669BA5F"
                    }]
        }, {
            "53":    [{
                        "type": "nextline"
                    }]
        }, {
            "54":    [{
                        "type": "line",
                        "align":"c",
                        "txt":   "9F0D IAC Default       B050808800"
```

```
                }]
        }, {
            "55":    [{

                    "type": "nextline"
                }]
        }, {
            "56":    [{

                    "type": "line",
                    "align":"c",
                    "txt":  "9F0E IAC Denial        0000000000"
                }]
        }, {
            "57":    [{

                    "type": "nextline"
                }]
        }, {
            "58":    [{

                    "type": "line",
                    "align":"c",
                    "txt":  "9F0F IAC Online        B050809800"
                }]
        }, {
            "59":    [{

                    "type": "nextline"
                }]
        }, {
            "60":    [{

                    "type": "line",
                    "align":"lr",
                    "txt1": "TAC Default",
                    "txt2": "DC4000A800"
                }]
        }, {
            "61":    [{

                    "type": "nextline"
                }]
        }, {
            "62":    [{

                    "type": "line",
                    "align":"lr",
                    "txt1": "TAC Denial",
                    "txt2": "0010000000"
                }]
        }, {
            "63":    [{

                    "type": "nextline"
                }]
        }, {
            "64":    [{
```

```
                    "type": "line",
                    "align":"lr",
                    "txt1": "TAC Online",
                    "txt2": "DC4004F800"
              }]
      }, {
          "65":   [{
                    "type": "nextline"
              }]
      }, {
          "66":   [{
                    "type": "line",
                    "align":"l",
                    "txt":  "1st GENERATE AC"
              }]
      }, {
          "67":   [{
                    "type": "nextline"
              }]
      }, {
          "68":   [{
                    "type": "line",
                    "align":"c",
                    "txt":  "95   TVR             8080009000"
              }]
      }, {
          "69":   [{
                    "type": "nextline"
              }]
      }, {
          "70":   [{
                    "type": "line",
                    "align":"c",
                    "txt":  "9F10 Issuer Appl Data           "
              }]
      }, {
          "71":   [{
                    "type": "line",
                    "align":"c",
                    "txt":  "    06010A0360A000              "
              }]
      }, {
          "72":   [{
                    "type": "nextline"
              }]
      }, {
          "73":   [{
                    "type": "line",
                    "align":"c",
```

```
                                "txt":  "9F26 Appl Cryptogram              "
                }]
        }, {
            "74":   [{
                                "type": "line",
                                "align":"c",
                                "txt":  "      5E2A1CB90426A471             "
                }]
        }, {
            "75":   [{
                                "type": "nextline"
                }]
        }, {
            "76":   [{
                                "type": "line",
                                "align":"c",
                                "txt":  "9F27 CID                        40"
                }]
        }, {
            "77":   [{
                                "type": "nextline"
                }]
        }, {
            "78":   [{
                                "type": "line",
                                "align":"l",
                                "txt":  "2nd GENERATE AC"
                }]
        }, {
            "79":   [{
                                "type": "nextline"
                }]
        }, {
            "80":   [{
                                "type": "line",
                                "align":"c",
                                "txt": "91   Issuer Authentication Data   "
                }]
        }, {
            "81":   [{
                                "type": "line",
                                "align":"c",
                                "txt":  " 909230330A5AC15E3030            "
                }]
        }, {
            "82":   [{
                                "type": "nextline"
                }]
        }, {
```

```
        "83":    [{
                        "type": "line",
                        "align":"c",
                        "txt":  "95   TVR                8080009000"
                }]
},  {
        "84":    [{
                        "type": "nextline"
                }]
},  {
        "85":    [{
                        "type": "line",
                        "align":"c",
                        "txt":  "9F26 Appl Cryptogram                   "
                }]
},  {
        "86":    [{
                        "type": "line",
                        "align":"c",
                        "txt":  "     5E2A1CB90426A471               "
                }]
},  {
        "87":    [{
                        "type": "nextline"
                }]
},  {
        "88":    [{
                        "type": "line",
                        "align":"c",
                        "txt":  "9F27 CID                        40"
                }]
},  {
        "89":    [{
                        "type": "nextline"
                }]
},  {
        "90":    [{
                        "type": "nextline"
                }]
},  {
        "91":    [{
                        "type": "line",
                        "align":"l",
                        "txt":  "Final"
                }]
},  {
        "92":    [{
                        "type": "nextline"
                }]
```

```
}, {
    "93":   [{
                "type": "line",
                "align":"c",
                "txt":  "8A   Auth Response Code        00"
            }]
}, {
    "94":   [{
                "type": "nextline"
            }]
}, {
    "95":   [{
                "type": "line",
                "align":"c",
                "txt":  "9B   TSI                    7800"
            }]
}, {
    "96":   [{
                "type": "nextline"
            }]
}, {
    "97":   [{
                "type": "line",
                "align":"c",
                "txt":  "END OF REPORT"
            }]
}, {
    "98":   [{
                "type": "line",
                "align":"c",
                "size": "detail",
                "txt":  "AMP POS Version"
            }]
}, {
    "99":   [{
                "type": "line",
                "align":"c",
                "size": "detail",
                "txt":  "02.02.027_FDRha01.00.000"
            }]
}, {
    "100":  [{
                "type": "nextline"
            }]
}, {
    "101":  [{
                "type": "nextline"
            }]
}, {
```

```
          "102":   [{
                        "type": "nextline"
                  }
                  ]
            }
      ]
}
```

4.4.14   MEDIA SELECTION

This method calls BaseApp's Media Selection setting, which causes the corresponding UI to be displayed for data entry.

Prototype	`public void performSelectMedia();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	User-Defined Echo Data
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended[6]

4.4.15   OPEN PRE-AUTHORIZATION REPORT

This method calls BaseApp's Open Pre-Auth Report function.

Prototype	`public void performOpenPreAuthReport();`
Mandatory Fields (See **Setting the Fields** for details)	Auto-Print
Optional Fields	User-Defined Echo Data

(See **Setting the Fields** for details)	
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_XMLDATA KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_JSONRCPT[6] KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

The following describes the XML format in KEY_RESPONSE_XMLDATA:

```
<XMLResponse>
    <XMLCmdType>OpenPreAuth</XMLCmdType>
    <XMLReceipt>
        <ReportHeader>
            <ReportLabel>OPEN PRE-AUTH REPORT</ReportLabel>
            <ReceiptHeader1>AMP TEMP TERMINAL TESTING</ReceiptHeader1>
            <ReceiptHeader2>15 WERTHEIM CRT. UNITS 401-403</ReceiptHeader2>
            <ReceiptHeader3>RICHMOND HILL ON L4B3H7</ReceiptHeader3>
            <ReceiptHeader4>AMP TESTING KRISTENE CONCHA</ReceiptHeader4>
            <TransDate>06/26/19</TransDate>
            <TransTime>02:42:51</TransTime>
            <BatchNo>0102</BatchNo>
            <MerchantID>887000002726</MerchantID>
            <TerminalID>AMP00006</TerminalID>
            <FromDate>03/21/2020</FromDate>
            <FromTime>05:31 AM</FromTime>
            <ToDate>03/21/2020</ToDate>
            <ToTime>05:31 AM</ToTime>
        </ReportHeader>
        <ReportBody>
            <Transaction_1>
                <TransDate>2019/06/26</TransDate>
                <TransTime>02:42:08</TransTime>
                <InvoiceNo>0000011</InvoiceNo>
                <AccountNumber>************0119</AccountNumber>
                <AuthNumber>076237</AuthNumber>
                <ReferenceNumber>917706660800</ReferenceNumber>
                <TransAmount>$          5.00</TransAmount>
```

```
            </Transaction_1>
                <TransCount>1</TransCount>
        </ReportBody>
        <ReportTotals>
            <TotalRecords>1</TotalRecords>
            <TotalAmount>$           5.00</TotalAmount>
        </ReportTotals>
    </XMLReceipt>
</XMLResponse>
```

The returned XML format report is not supported by RapidConnect and should be implemented in JSON format, as demonstrated in the following code sample:

```
{
    "layout": {
        "format": "condensed",
        "fontmaxchars": [
            {
                "regular": 34
            },
            {
                "emphasis": 24
            },
            {
                "detail": 42
            }
        ]
    },
    "lines": [
        {
        "1": [
            {
                "type": "image",
                "align": "c",
                "image": "AMPLogoPrn.png"
            }
        ]
        },
        {
        "2": [
            {
                "type": "line",
                "align": "c",
                "size": "emphasis",
                "txt": "Merchant Name"
            }
        ]
```

```
        },
        {
            "3": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Merchant Address 1"
                }
            ]
        },
        {
            "4": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Merchant Address 2"
                }
            ]
        },
        {
            "5": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Merchant Address 3"
                }
            ]
        },
        {
            "6": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Customer Service Phone Number"
                }
            ]
        },
        {
            "7": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "123-456-7890"
                }
            ]
        },
        {
            "8": [
                {
```

```json
                "type": "nextline"
            }
        ]
    },
    {
        "9": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "10": [
            {
                "type": "line",
                "align": "c",
                "txt": "OPEN PRE AUTH REPORT"
            }
        ]
    },
    {
        "11": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "12": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "10/01/2020",
                "txt2": "03:19PM"
            }
        ]
    },
    {
        "13": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "14": [
            {
                "type": "line",
                "align": "l",
```

```
            "txt": "Merchant ID: RCTST0000045177"
        }
    ]
},
{
    "15": [
        {
            "type": "line",
            "align": "l",
            "txt": "Term ID: 003"
        }
    ]
},
{
    "16": [
        {
            "type": "line",
            "align": "l",
            "txt": "From: 09/29/2020, 01:37PM"
        }
    ]
},
{
    "17": [
        {
            "type": "line",
            "align": "l",
            "txt": "To: 10/01/2020, 03:19PM"
        }
    ]
},
{
    "18": [
        {
            "type": "nextline"
        }
    ]
},
{
    "19": [
        {
            "type": "line",
            "align": "c",
            "txt": "--------------------------------"
        }
    ]
},
{
    "20": [
```

```
        {
            "type": "line",
            "align": "lr",
            "txt1": "Date: 10/01/2020",
            "txt2": "Time: 03:18PM"
        }
    ]
},
{
    "21": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Inv #: ",
            "txt2": "00000043"
        }
    ]
},
{
    "22": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Card #: ",
            "txt2": "************1165"
        }
    ]
},
{
    "23": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Auth #: ",
            "txt2": "013022"
        }
    ]
},
{
    "24": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Ref #: ",
            "txt2": "3784726777"
        }
    ]
},
{
```

```
        "25": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Trace #: ",
                "txt2": "000083"
            }
        ]
    },
    {
        "26": [
            {
                "type": "line",
                "align": "c",
                "txt": "TOTAL:                    $          26.00"
            }
        ]
    },
    {
        "27": [
            {
                "type": "line",
                "align": "c",
                "txt": "--------------------------------"
            }
        ]
    },
    {
        "28": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Date: 10/01/2020",
                "txt2": "Time: 03:19PM"
            }
        ]
    },
    {
        "29": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Inv #: ",
                "txt2": "00000044"
            }
        ]
    },
    {
        "30": [
```

```
            {
                "type": "line",
                "align": "lr",
                "txt1": "Card #: ",
                "txt2": "************0010"
            }
        ]
    },
    {
        "31": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Auth #: ",
                "txt2": "077626"
            }
        ]
    },
    {
        "32": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Ref #: ",
                "txt2": "1179203337"
            }
        ]
    },
    {
        "33": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Trace #: ",
                "txt2": "000084"
            }
        ]
    },
    {
        "34": [
            {
                "type": "line",
                "align": "c",
                "txt": "TOTAL:                 $          28.00"
            }
        ]
    },
    {
        "35": [
```

```
                    {
                        "type": "line",
                        "align": "c",
                        "txt": "--------------------------------"
                    }
                ]
            },
            {
                "36": [
                    {
                        "type": "nextline"
                    }
                ]
            },
            {
                "37": [
                    {
                        "type": "line",
                        "align": "c",
                        "txt": "TOTALS"
                    }
                ]
            },
            {
                "38": [
                    {
                        "type": "line",
                        "align": "c",
                        "txt": "--------------------------------"
                    }
                ]
            },
            {
                "39": [
                    {
                        "type": "line",
                        "align": "lr",
                        "txt1": "Total Records:",
                        "txt2": "2"
                    }
                ]
            },
            {
                "40": [
                    {
                        "type": "line",
                        "align": "c",
                        "txt": "Total PreAuth Amount:        54.00"
                    }
```

```
            ]
        },
        {
            "41": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "42": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "43": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "END OF REPORT"
                }
            ]
        },
        {
            "44": [
                {
                    "type": "line",
                    "align": "c",
                    "size": "detail",
                    "txt": "AMP POS Version"
                }
            ]
        },
        {
            "45": [
                {
                    "type": "line",
                    "align": "c",
                    "size": "detail",
                    "txt": "02.02.027_FDRha01.00.000"
                }
            ]
        },
        {
            "46": [
                {
                    "type": "nextline"
```

```
                }
            ]
        },
        {
            "47": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "48": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "49": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "50": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "51": [
                {
                    "type": "nextline"
                }
            ]
        }
    ]
}
```

4.4.16   PARAMETER SETTINGS

This method calls BaseApp's Parameter Settings Menu function, which causes the corresponding UI to be displayed for data entry.

Prototype	`public void performParameterSetting();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended[6]

4.4.17   PERFORM STANDALONE MODE SETTING

This method calls BaseApp's Standalone mode setting. Since unattended applications are always semi-integrated, this setting is applicable only for attended applications.

Prototype	`public void performStandaloneModeSwitch();`
Mandatory Fields (See **Setting the Fields** for details)	**Standalone Mode Value**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION

	KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended[6]

4.4.18   PRE-AUTHORIZATION

This method calls BaseApp's Pre-Authorization transaction.

Prototype	`public void performPreAuth();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print** **Card Entry Method** **Card Number (PAN)[1]** **Expiry Date[1]** **Card Security Code / Card Verification Value[1]** **Base Amount[2]** **Card Additional Data[7]**
Optional Fields (See **Setting the Fields** for details)	**Tip Amount** **Address** **Zip Code** **User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_MERCH_NAME KEY_RESPONSE_MERCH_ADD1 KEY_RESPONSE_MERCH_ADD2 KEY_RESPONSE_CUST_SERV_PHONE KEY_RESPONSE_TIME KEY_RESPONSE_DATE KEY_RESPONSE_TID KEY_RESPONSE_MID KEY_RESPONSE_TRANSNAME KEY_RESPONSE_CARD_HOLDER_NAME

	KEY_RESPONSE_CARDLABEL
	KEY_RESPONSE_PAN
	KEY_RESPONSE_EXPIRYDATE
	KEY_RESPONSE_TRACK1
	KEY_RESPONSE_TRACK2
	KEY_RESPONSE_ENTRYMODE
	KEY_RESPONSE_CVM
	KEY_RESPONSE_INVOICENUM
	KEY_RESPONSE_CLERKID
	KEY_RESPONSE_STORENUM
	KEY_RESPONSE_TRACENUM
	KEY_RESPONSE_BATCHNUM
	KEY_RESPONSE_USER_DEFINED_ECHO_DATA
	KEY_RESPONSE_BASEAMT
	KEY_RESPONSE_TIPAMT
	KEY_RESPONSE_CASHBKAMT
	KEY_RESPONSE_SURCHARGEAMT
	KEY_RESPONSE_TOTALAMT
	KEY_RESPONSE_TVR
	KEY_RESPONSE_AID
	KEY_RESPONSE_AUTHCODE
	KEY_RESPONSE_SEQUENCENUM
	KEY_RESPONSE_CURRENCY
	KEY_RESPONSE_IAD
	KEY_RESPONSE_TSI
	KEY_RESPONSE_ARC
	KEY_RESPONSE_CODE

	KEY_RESPONSE_TEXT
	KEY_RESPONSE_APPPREFNAME
	KEY_RESPONSE_TC
	KEY_RESPONSE_HOSTTIMESTAMP
	KEY_RESPONSE_TRANSREF
	KEY_RESPONSE_RESULTCODE
	KEY_RESPONSE_TOKEN_DATA
	KEY_RESPONSE_HEADER1
	KEY_RESPONSE_HEADER2
	KEY_RESPONSE_HEADER3
	KEY_RESPONSE_HEADER4
	KEY_RESPONSE_HEADER5
	KEY_RESPONSE_HEADER6
	KEY_RESPONSE_FOOTER1
	KEY_RESPONSE_FOOTER2
	KEY_RESPONSE_FOOTER3
	KEY_RESPONSE_FOOTER4
	KEY_RESPONSE_FOOTER5
	KEY_RESPONSE_FOOTER6
	KEY_RESPONSE_TRANSID
	KEY_RESPONSE_CASHBACKFEE
	KEY_RESPONSE_NONCASHFEE
	KEY_RESPONSE_EMV_APPLABEL[3,6]
	KEY_RESPONSE_EMV_APPLPAN[3,6]
	KEY_RESPONSE_EMV_CURRENCYCODE[3,6]
	KEY_RESPONSE_EMV_PANSEQNUM[3,6]
	KEY_RESPONSE_EMV_AIP[3,6]

	KEY_RESPONSE_EMV_TVR[3,6]
	KEY_RESPONSE_EMV_TRANSDATE[3,6]
	KEY_RESPONSE_EMV_TRANSTYPE[3,6]
	KEY_RESPONSE_EMV_AMT_AUTH[3,6]
	KEY_RESPONSE_EMV_OTH_AMT[3,6]
	KEY_RESPONSE_APP_USAGE_CTRL[3,6]
	KEY_RESPONSE_EMV_IAC_ONLINE[3,6]
	KEY_RESPONSE_EMV_IAC_DEFAULT[3,6]
	KEY_RESPONSE_EMV_IAC_DENIAL[3,6]
	KEY_RESPONSE_APPPREFNAME[3,6]
	KEY_RESPONSE_EMV_TERM_CCODE[3,6]
	KEY_RESPONSE_EMV_AC[3,6]
	KEY_RESPONSE_EMV_CID[3,6]
	KEY_RESPONSE_EMV_IAD[3,6]
	KEY_RESPONSE_EMV_CVM[3,6]
	KEY_RESPONSE_EMV_ATC[3]
	KEY_RESPONSE_EMV_UNPRED_NUM[3]
	KEY_RESPONSE_EMV_TAC_ONLINE[3]
	KEY_RESPONSE_EMV_TAC_DEFAULT[3]
	KEY_RESPONSE_EMV_TAC_DENIAL[3]
	KEY_RESPONSE_REVERSAL_AMT
	KEY_RESPONSE_APP_VERSION
	KEY_RESPONSE_CODE_ISON[4]
	KEY_RESPONSE_EMV_APP_TRANSDATA[3,6]
	KEY_RESPONSE_SWVER
	KEY_RESPONSE_ISSUERNAME[5]
	KEY_RESPONSE_GATEWAYTRANSID[5]

	KEY_RESPONSE_BANKRESPONSECODE[5]
	KEY_RESPONSE_AVAILABLE_AMT[5]
	KEY_RESPONSE_JSONRCPT[6]
	KEY_RESPONSE_EMV_CAPK_INDEX_KEY
	KEY_RESPONSE_ORDER_NUM[6]
	KEY_RESPONSE_PURCHASE_IDENTIFIER[6]
	KEY_RESPONSE_MERCHANT_TAX_ID[6]
	KEY_RESPONSE_TAX_EXEMPT_STATUS[6]
	KEY_RESPONSE_PAYMENT_TYPE[6]
	KEY_RESPONSE_DISCOUNT_AMT
	KEY_RESPONSE_DEMO_MODE
	KEY_RESPONSE_LOCALTIME[8]
	KEY_RESPONSE_LOCALDATE[8]
Application Type	Attended, Unattended

4.4.19 PRE-AUTHORIZATION CANCELLATION

This method calls BaseApp's Pre-Authorization Cancellation (Completion by zero amount) transaction. This command is only applicable to unattended applications.

Prototype	`public void performPreAuthCancel();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_MERCH_NAME KEY_RESPONSE_MERCH_ADD1 KEY_RESPONSE_MERCH_ADD2

KEY_RESPONSE_CUST_SERV_PHONE

KEY_RESPONSE_TIME

KEY_RESPONSE_DATE

KEY_RESPONSE_TID

KEY_RESPONSE_MID

KEY_RESPONSE_TRANSNAME

KEY_RESPONSE_CARD_HOLDER_NAME

KEY_RESPONSE_CARDLABEL

KEY_RESPONSE_PAN

KEY_RESPONSE_TRACK1

KEY_RESPONSE_TRACK2

KEY_RESPONSE_ENTRYMODE

KEY_RESPONSE_CVM

KEY_RESPONSE_INVOICENUM

KEY_RESPONSE_CLERKID

KEY_RESPONSE_STORENUM

KEY_RESPONSE_TRACENUM

KEY_RESPONSE_BATCHNUM

KEY_RESPONSE_USER_DEFINED_ECHO_DATA

KEY_RESPONSE_BASEAMT

KEY_RESPONSE_TIPAMT

KEY_RESPONSE_CASHBKAMT

KEY_RESPONSE_SURCHARGEAMT

KEY_RESPONSE_TOTALAMT

KEY_RESPONSE_TVR

KEY_RESPONSE_AID

KEY_RESPONSE_AUTHCODE

	KEY_RESPONSE_SEQUENCENUM
	KEY_RESPONSE_CURRENCY
	KEY_RESPONSE_IAD
	KEY_RESPONSE_TSI
	KEY_RESPONSE_ARC
	KEY_RESPONSE_CODE
	KEY_RESPONSE_TEXT
	KEY_RESPONSE_APPPREFNAME
	KEY_RESPONSE_TC
	KEY_RESPONSE_HOSTTIMESTAMP
	KEY_RESPONSE_TRANSREF
	KEY_RESPONSE_RESULTCODE
	KEY_RESPONSE_APP_VERSION
	KEY_RESPONSE_REVERSAL_AMT[4]
	KEY_RESPONSE_EMV_APP_TRANSDATA[4]
	KEY_RESPONSE_CODE_ISO[4]
	KEY_RESPONSE_SWVER[4]
	KEY_RESPONSE_ISSUERNAME[5]
	KEY_RESPONSE_GATEWAYTRANSID[5]
	KEY_RESPONSE_BANKRESPONSECODE[5]
	KEY_RESPONSE_AVAILABLE_AMT[5]
	KEY_RESPONSE_DEMO_MODE
Application Type	Unattended

4.4.20 PURCHASE

This method calls BaseApp's Purchase / Sale transaction.

Prototype	`public void performPurchase();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print** **Card Entry Method** **Card Number (PAN)** [1] **Expiry Date**[1] **Card Security Code / Card Verification Value**[1] **Base Amount**[2]
Optional Fields (See **Setting the Fields** for details)	**Tip Amount** **Address** **Zip Code** **User-Defined Echo Data** **Cashback Amount** **Tax Amount** **Card Additional Data**[7]
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_MERCH_NAME KEY_RESPONSE_MERCH_ADD1 KEY_RESPONSE_MERCH_ADD2 KEY_RESPONSE_CUST_SERV_PHONE KEY_RESPONSE_TIME KEY_RESPONSE_DATE KEY_RESPONSE_TID KEY_RESPONSE_MID KEY_RESPONSE_TRANSNAME KEY_RESPONSE_CARD_HOLDER_NAME KEY_RESPONSE_CARDLABEL

	KEY_RESPONSE_PAN
	KEY_RESPONSE_EXPIRYDATE
	KEY_RESPONSE_TRACK1
	KEY_RESPONSE_TRACK2
	KEY_RESPONSE_ENTRYMODE
	KEY_RESPONSE_CVM
	KEY_RESPONSE_INVOICENUM
	KEY_RESPONSE_CLERKID
	KEY_RESPONSE_STORENUM
	KEY_RESPONSE_TRACENUM
	KEY_RESPONSE_BATCHNUM
	KEY_RESPONSE_USER_DEFINED_ECHO_DATA
	KEY_RESPONSE_BASEAMT
	KEY_RESPONSE_TIPAMT
	KEY_RESPONSE_CASHBKAMT
	KEY_RESPONSE_SURCHARGEAMT
	KEY_RESPONSE_TOTALAMT
	KEY_RESPONSE_TVR
	KEY_RESPONSE_AID
	KEY_RESPONSE_AUTHCODE
	KEY_RESPONSE_SEQUENCENUM
	KEY_RESPONSE_CURRENCY
	KEY_RESPONSE_IAD
	KEY_RESPONSE_TSI
	KEY_RESPONSE_ARC
	KEY_RESPONSE_CODE
	KEY_RESPONSE_TEXT

	KEY_RESPONSE_TC
	KEY_RESPONSE_HOSTTIMESTAMP
	KEY_RESPONSE_TRANSREF
	KEY_RESPONSE_RESULTCODE
	KEY_RESPONSE_TOKEN_DATA
	KEY_RESPONSE_HEADER1
	KEY_RESPONSE_HEADER2
	KEY_RESPONSE_HEADER3
	KEY_RESPONSE_HEADER4
	KEY_RESPONSE_HEADER5
	KEY_RESPONSE_HEADER6
	KEY_RESPONSE_FOOTER1
	KEY_RESPONSE_FOOTER2
	KEY_RESPONSE_FOOTER3
	KEY_RESPONSE_FOOTER4
	KEY_RESPONSE_FOOTER5
	KEY_RESPONSE_FOOTER6
	KEY_RESPONSE_TRANSID
	KEY_RESPONSE_CASHBACKFEE
	KEY_RESPONSE_NONCASHFEE
	KEY_RESPONSE_EMV_SETTLEDATE
	KEY_RESPONSE_EMV_NETWORKID
	KEY_RESPONSE_EMV_APPLABEL[3,6]
	KEY_RESPONSE_EMV_APPLPAN[3,6]
	KEY_RESPONSE_EMV_CURRENCYCODE[3,6]
	KEY_RESPONSE_EMV_PANSEQNUM[3,6]
	KEY_RESPONSE_EMV_AIP[3,6]

KEY_RESPONSE_EMV_TVR[3,6]
KEY_RESPONSE_EMV_TRANSDATE[3,6]
KEY_RESPONSE_EMV_TRANSTYPE[3,6]
KEY_RESPONSE_EMV_AMT_AUTH[3,6]
KEY_RESPONSE_EMV_OTH_AMT[3,6]
KEY_RESPONSE_APP_USAGE_CTRL[3,6]
KEY_RESPONSE_EMV_IAC_ONLINE[3,6]
KEY_RESPONSE_EMV_IAC_DEFAULT[3,6]
KEY_RESPONSE_EMV_IAC_DENIAL[3,6]
KEY_RESPONSE_APPPREFNAME[3,6]
KEY_RESPONSE_EMV_TERM_CCODE[3,6]
KEY_RESPONSE_EMV_AC[3,6]
KEY_RESPONSE_EMV_CID[3,6]
KEY_RESPONSE_EMV_IAD[3,6]
KEY_RESPONSE_EMV_CVM[3,6]
KEY_RESPONSE_EMV_ATC[3,6]
KEY_RESPONSE_EMV_UNPRED_NUM[3]
KEY_RESPONSE_EMV_TAC_ONLINE[3]
KEY_RESPONSE_EMV_TAC_DEFAULT[3]
KEY_RESPONSE_EMV_TAC_DENIAL[3]
KEY_RESPONSE_REVERSAL_AMT
KEY_RESPONSE_APP_VERSION
KEY_RESPONSE_EMV_APP_TRANSDATA
KEY_RESPONSE_CODE_ISO[4]
KEY_RESPONSE_SWVER[4]
KEY_RESPONSE_ISSUERNAME[5]
KEY_RESPONSE_GATEWAYTRANSID[5]

	KEY_RESPONSE_BANKRESPONSECODE[5]
	KEY_RESPONSE_AVAILABLE_AMT[5]
	KEY_RESPONSE_JSONRCPT[6]
	KEY_RESPONSE_EMV_CAPK_INDEX_KEY
	KEY_RESPONSE_APPROVED_AMT[5]
	KEY_RESPONSE_AMT_DUE[5]
	KEY_RESPONSE_ORDER_NUM[6]
	KEY_RESPONSE_PURCHASE_IDENTIFIER[6]
	KEY_RESPONSE_MERCHANT_TAX_ID[6]
	KEY_RESPONSE_TAX_EXEMPT_STATUS[6]
	KEY_RESPONSE_PAYMENT_TYPE[6]
	KEY_RESPONSE_DISCOUNT_AMT
	KEY_RESPONSE_DEMO_MODE
	KEY_RESPONSE_LOCALTIME[8]
	KEY_RESPONSE_LOCALDATE[8]
Application Type	Attended, Unattended
Notes	The following response fields contain value only when the Re-enter transaction is executed. This transaction is exclusively supported by TSYS: KEY_RESPONSE_EMV_SETTLEDATE KEY_RESPONSE_EMV_NETWORKID

4.4.21 RECALL LAST TRANSACTION

This method calls BaseApp's Last Transaction Recall function.

Prototype	`public void performRecallLast();`
Mandatory Fields (See **Setting the Fields** for details)	Auto-Print

Optional Fields	User-Defined Echo Data
(See **Setting the Fields** for details)	
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_MERCH_NAME KEY_RESPONSE_MERCH_ADD1 KEY_RESPONSE_MERCH_ADD2 KEY_RESPONSE_CUST_SERV_PHONE KEY_RESPONSE_TIME KEY_RESPONSE_DATE KEY_RESPONSE_TID KEY_RESPONSE_MID KEY_RESPONSE_TRANSNAME KEY_RESPONSE_CARD_HOLDER_NAME KEY_RESPONSE_CARDLABEL KEY_RESPONSE_PAN KEY_RESPONSE_ENTRYMODE KEY_RESPONSE_CVM KEY_RESPONSE_INVOICENUM KEY_RESPONSE_CLERKID KEY_RESPONSE_STORENUM KEY_RESPONSE_TRACENUM KEY_RESPONSE_BATCHNUM KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_BASEAMT KEY_RESPONSE_TIPAMT KEY_RESPONSE_CASHBKAMT KEY_RESPONSE_SURCHARGEAMT

	KEY_RESPONSE_TOTALAMT
	KEY_RESPONSE_TVR
	KEY_RESPONSE_AID
	KEY_RESPONSE_AUTHCODE
	KEY_RESPONSE_SEQUENCENUM
	KEY_RESPONSE_CURRENCY
	KEY_RESPONSE_IAD
	KEY_RESPONSE_TSI
	KEY_RESPONSE_ARC
	KEY_RESPONSE_CODE
	KEY_RESPONSE_TEXT
	KEY_RESPONSE_APPPREFNAME
	KEY_RESPONSE_TC
	KEY_RESPONSE_HOSTTIMESTAMP
	KEY_RESPONSE_TRANSREF
	KEY_RESPONSE_RESULTCODE
	KEY_RESPONSE_APP_VERSION
	KEY_RESPONSE_CODE_ISO
	KEY_RESPONSE_EMV_APP_TRANSDATA
	KEY_RESPONSE_TOKEN_DATA
	KEY_RESPONSE_HEADER1
	KEY_RESPONSE_HEADER2
	KEY_RESPONSE_HEADER3
	KEY_RESPONSE_HEADER4
	KEY_RESPONSE_HEADER5
	KEY_RESPONSE_HEADER6
	KEY_RESPONSE_FOOTER1

	KEY_RESPONSE_FOOTER2
	KEY_RESPONSE_FOOTER3
	KEY_RESPONSE_FOOTER4
	KEY_RESPONSE_FOOTER5
	KEY_RESPONSE_FOOTER6
	KEY_RESPONSE_TRANSID
	KEY_RESPONSE_CASHBACKFEE
	KEY_RESPONSE_NONCASHFEE
	KEY_RESPONSE_EMV_SETTLEDATE
	KEY_RESPONSE_EMV_NETWORKID
	KEY_RESPONSE_EMV_APPLABEL[3]
	KEY_RESPONSE_EMV_APPLPAN[3]
	KEY_RESPONSE_EMV_CURRENCYCODE[3]
	KEY_RESPONSE_EMV_PANSEQNUM[3]
	KEY_RESPONSE_EMV_AIP[3]
	KEY_RESPONSE_EMV_TVR[3]
	KEY_RESPONSE_EMV_TRANSDATE[3]
	KEY_RESPONSE_EMV_TRANSTYPE[3]
	KEY_RESPONSE_EMV_AMT_AUTH[3]
	KEY_RESPONSE_EMV_OTH_AMT[3]
	KEY_RESPONSE_APP_USAGE_CTRL[3]
	KEY_RESPONSE_EMV_IAC_ONLINE[3]
	KEY_RESPONSE_EMV_IAC_DEFAULT[3]
	KEY_RESPONSE_EMV_IAC_DENIAL[3]
	KEY_RESPONSE_APPPREFNAME[3]
	KEY_RESPONSE_EMV_TERM_CCODE[3]
	KEY_RESPONSE_EMV_AC[3]

	KEY_RESPONSE_EMV_CID[3]
	KEY_RESPONSE_EMV_IAD[3]
	KEY_RESPONSE_EMV_CVM[3]
	KEY_RESPONSE_EMV_ATC[3]
	KEY_RESPONSE_EMV_TAC_ONLINE[3]
	KEY_RESPONSE_EMV_TAC_DEFAULT[3]
	KEY_RESPONSE_EMV_TAC_DENIAL[3]
	KEY_RESPONSE_REVERSAL_AMT[3]
	KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

4.4.22 REFUND

This method calls BaseApp's Refund transaction.

Prototype	`public void performRefund();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print** **Card Entry Method** **Card Number (PAN)**[1] **Expiry Date**[1] **Card Security Code / Card Verification Value**[1] **Base Amount**
Optional Fields (See **Setting the Fields** for details)	**Address** **Zip Code** **User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_MERCH_NAME KEY_RESPONSE_MERCH_ADD1 KEY_RESPONSE_MERCH_ADD2 KEY_RESPONSE_CUST_SERV_PHONE

	KEY_RESPONSE_TIME
	KEY_RESPONSE_DATE
	KEY_RESPONSE_TID
	KEY_RESPONSE_MID
	KEY_RESPONSE_TRANSNAME
	KEY_RESPONSE_CARD_HOLDER_NAME
	KEY_RESPONSE_CARDLABEL
	KEY_RESPONSE_PAN
	KEY_RESPONSE_TRACK1
	KEY_RESPONSE_TRACK2
	KEY_RESPONSE_ENTRYMODE
	KEY_RESPONSE_CVM
	KEY_RESPONSE_INVOICENUM
	KEY_RESPONSE_CLERKID
	KEY_RESPONSE_STORENUM
	KEY_RESPONSE_TRACENUM
	KEY_RESPONSE_BATCHNUM
	KEY_RESPONSE_USER_DEFINED_ECHO_DATA
	KEY_RESPONSE_BASEAMT
	KEY_RESPONSE_TOTALAMT
	KEY_RESPONSE_TVR
	KEY_RESPONSE_AID
	KEY_RESPONSE_AUTHCODE
	KEY_RESPONSE_SEQUENCENUM
	KEY_RESPONSE_CURRENCY
	KEY_RESPONSE_IAD
	KEY_RESPONSE_TSI

	KEY_RESPONSE_ARC
	KEY_RESPONSE_CODE
	KEY_RESPONSE_TEXT
	KEY_RESPONSE_APPPREFNAME
	KEY_RESPONSE_TC
	KEY_RESPONSE_HOSTTIMESTAMP
	KEY_RESPONSE_TRANSREF
	KEY_RESPONSE_RESULTCODE
	KEY_RESPONSE_HEADER1
	KEY_RESPONSE_HEADER2
	KEY_RESPONSE_HEADER3
	KEY_RESPONSE_HEADER4
	KEY_RESPONSE_HEADER5
	KEY_RESPONSE_HEADER6
	KEY_RESPONSE_FOOTER1
	KEY_RESPONSE_FOOTER2
	KEY_RESPONSE_FOOTER3
	KEY_RESPONSE_FOOTER4
	KEY_RESPONSE_FOOTER5
	KEY_RESPONSE_FOOTER6
	KEY_RESPONSE_TRANSID
	KEY_RESPONSE_EMV_SETTLEDATE
	KEY_RESPONSE_EMV_NETWORKID
	KEY_RESPONSE_EMV_APPLABEL[3,6]
	KEY_RESPONSE_EMV_APPLPAN[3,6]
	KEY_RESPONSE_EMV_CURRENCYCODE[3,6]
	KEY_RESPONSE_EMV_PANSEQNUM[3,6]

KEY_RESPONSE_EMV_AIP[3,6]

KEY_RESPONSE_EMV_TVR[3,6]

KEY_RESPONSE_EMV_TRANSDATE[3,6]

KEY_RESPONSE_EMV_TRANSTYPE[3,6]

KEY_RESPONSE_EMV_AMT_AUTH[3,6]

KEY_RESPONSE_EMV_OTH_AMT[3,6]

KEY_RESPONSE_APP_USAGE_CTRL[3,6]

KEY_RESPONSE_EMV_IAC_ONLINE[3,6]

KEY_RESPONSE_EMV_IAC_DEFAULT[3,6]

KEY_RESPONSE_EMV_IAC_DENIAL[3,6]

KEY_RESPONSE_APPPREFNAME[3,6]

KEY_RESPONSE_EMV_TERM_CCODE[3,6]

KEY_RESPONSE_EMV_AC[3]

KEY_RESPONSE_EMV_CID[3,6]

KEY_RESPONSE_EMV_IAD[3]

KEY_RESPONSE_EMV_CVM[3,6]

KEY_RESPONSE_EMV_ATC[3,6]

KEY_RESPONSE_EMV_UNPRED_NUM[3]

KEY_RESPONSE_EMV_TAC_ONLINE[3]

KEY_RESPONSE_EMV_TAC_DEFAULT[3]

KEY_RESPONSE_EMV_TAC_DENIAL[3]

KEY_RESPONSE_REVERSAL_AMT

KEY_RESPONSE_APP_VERSION

KEY_RESPONSE_EMV_APP_TRANSDATA[3,6]

KEY_RESPONSE_CODE_ISO[4]

KEY_RESPONSE_SWVER[4]

KEY_RESPONSE_ISSUERNAME[5]

	KEY_RESPONSE_GATEWAYTRANSID[5]
	KEY_RESPONSE_BANKRESPONSECODE[5]
	KEY_RESPONSE_AVAILABLE_AMT[5]
	KEY_RESPONSE_JSONRCPT[6]
	KEY_RESPONSE_EMV_CAPK_INDEX_KEY
	KEY_RESPONSE_DEMO_MODE
	KEY_RESPONSE_LOCALTIME[8]
	KEY_RESPONSE_LOCALDATE[8]
Application Type	Attended, Unattended[6]

4.4.23 SET CONFIGURATION TAG VALUE

This method sets the value for a specific tag in BaseApp's configuration parameters.

Prototype	`public void performSetTagValue();`
Mandatory Fields (See **Setting the Fields** for details)	**Configuration Tag** **Configuration Value**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

4.4.24   SET CONFIGURATION TAG VALUES

This method sets the value for two or more tags in BaseApp's configuration parameters.

Prototype	`public void performSetTagValues();`
Mandatory Fields (See **Setting the Fields** for details)	**Configuration Tags** **Configuration Values**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

4.4.25   SET TMS HOST ADDRESS

This method calls BaseApp's TMS Host Address function, which causes the corresponding UI to be displayed for data entry.

Prototype	`public void performSetTMSHost();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION

	KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

4.4.26 SET TMS ID

This method calls BaseApp's TMS ID setting function, which causes the corresponding UI to be displayed for data entry.

Prototype	`public void performSetTMSID();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	User-Defined Echo Data
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION
Application Type	Attended, Unattended

4.4.27 SETTLEMENT

This method calls BaseApp's Settlement transaction.

Prototype	`public void performSettlement();`
Mandatory Fields (See **Setting the Fields** for details)	Auto-Print
Optional Fields (See **Setting the Fields** for details)	User-Defined Echo Data
Key Response	KEY_RESPONSE_XMLDATA

(Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

The XML format of KEY_RESPONSE_XMLDATA varies per processor.

- The following format applies to TSYS and Global Payments processors:

```
<XMLResponse>
    <XMLCmdType>Settlement</XMLCmdType>
    <XMLReceipt>
        <ReportHeader>
            <ReportLabel>SETTLEMENT REPORT</ReportLabel>
            <ReceiptHeader1>AMP TEMP TERMINAL TESTING</ReceiptHeader1>
            <ReceiptHeader2>15    WERTHEIM    CRT.    UNITS    401-
403</ReceiptHeader2>
            <ReceiptHeader3>RICHMOND HILL ON L4B3H7</ReceiptHeader3>
            <ReceiptHeader4>AMP TESTING KRISTENE CONCHA</ReceiptHeader4>
            <TransDate>06/26/19</TransDate>
            <TransTime>02:54:25</TransTime>
            <MerchantID>887000002726</BatchNo>
            <TerminalID>71134104</TerminalID>
            <FromDate>03/21/2020</FromDate>
            <FromTime>05:31 AM</FromTime>
            <ToDate>03/21/2020</ToDate>
            <ToTime>05:31 AM</ToTime>
            <BatchNo>238</BatchNo>
        </ReportHeader>
        <ReportBody>
            <Transaction_1>
                <InvoiceNo>0000009</InvoiceNo>
                <TransactionType>SL</ TransactionType>
                <AccountNumber>0057</AccountNumber>
                <AuthNumber>552442</AuthNumber>
                <TotalAmount>10.00</TransAmount>
            </Transaction_1>
            <TransCount>1</TransCount>
        </ReportBody>
        <TerminalTotals>
            <BatchTotalRecords>2</BatchTotalRecords>
            <TotalVoidCount>0</TotalVoidCount>
            <NetSales>10.00</NetSales>
        </TerminalTotals>
```

```
        </XMLReceipt>
</XMLResponse>
```

- The following format applies to PayFacto processor:

```
<XMLResponse>
    <XMLCmdType>Transaction</XMLCmdType>
    <XMLBody>
        <TransType>Settlement</TransType>
    </XMLBody>
    <XMLReceipt>
        <ReportHeader>
            <ReceiptHeader1>NONE</ReceiptHeader1>
            <ReceiptHeader2>NONE</ReceiptHeader2>
            <ReceiptHeader3>NONE</ReceiptHeader3>
            <ReceiptHeader4>NONE</ReceiptHeader4>
            <ReceiptHeader5>NONE</ReceiptHeader5>
            <ReceiptHeader6>NONE</ReceiptHeader6>
            <TransDate>04/22/19</TransDate>
            <TransTime>06:43:37</TransTime>
            <BatchNo>0059</BatchNo>
            <TerminalID>AMP00006</TerminalID>
        </ReportHeader>
        <ReportBody>
            <ReportLabel1>HOST TOTALS REPORT
            <CardTypeCount>6</CardTypeCount>
                <CardType_1>
                    <CardTypeLabel>MCRD</CardTypeLabel>
                    <RecordCount>1</RecordCount>
                    <Amount>$            1.00</Amount>
                    <MatchFlag>=</MatchFlag>
                </CardType_1>
                <CardType_2>
                    <CardTypeLabel>VISA</CardTypeLabel>
                    <RecordCount>0</RecordCount>
                    <Amount>$            0.00</Amount>
                    <MatchFlag>=</MatchFlag>
                </CardType_2>
                <CardType_3>
                    <CardTypeLabel>DISC</CardTypeLabel>
                    <RecordCount>0</RecordCount>
                    <Amount>$            0.00</Amount>
                    <MatchFlag>=</MatchFlag>
                </CardType_3>
                <CardType_4>
                    <CardTypeLabel>DEBT</CardTypeLabel>
                    <RecordCount>0</RecordCount>
                    <Amount>$            0.00</Amount>
```

```xml
            <MatchFlag>=</MatchFlag>
        </CardType_4>
        <CardType_5>
            <CardTypeLabel>JCB</CardTypeLabel>
            <RecordCount>0</RecordCount>
            <Amount>$          0.00</Amount>
            <MatchFlag>=</MatchFlag>
        </CardType_5>
        <CardType_6>
            <CardTypeLabel>AMEX</CardTypeLabel>
            <RecordCount>0</RecordCount>
            <Amount>$          0.00</Amount>
            <MatchFlag>=</MatchFlag>
        </CardType_6>
        <Total>$          1.00  </Total>
        <BatchRespText>== BATCH TOTALS MATCH ==</BatchRespText>
    </ReportLabel1>
    <ReportLabel2>TERMINAL TOTALS REPORT
    <CardTypeCount>2</CardTypeCount>
        <CardType_1>
            <CardTypeLabel1>MCRD</CardTypeLabel1>
            <Transaction_1>
                <TransType>Purchase/Compl</TransType>
                <RecordCount>1</RecordCount>
                <Amount>$          1.00</Amount>
            </Transaction_1>
            <Transaction_2>
                <TransType>Refund</TransType>
                <RecordCount>0</RecordCount>
                <Amount>$          0.00</Amount>
            </Transaction_2>
            <Transaction_3>
                <TransType>Void Purchase</TransType>
                <RecordCount>0</RecordCount>
                <Amount>$          0.00</Amount>
            </Transaction_3>
            <Transaction_4>
                <TransType>Void Refund</TransType>
                <RecordCount>0</RecordCount>
                <Amount>$          0.00</Amount>
            </Transaction_4>
            <Totals>
                <RecordCount>1</RecordCount>
                <Amount>$          1.00</Amount>
            </Totals>
        </CardType_1>
        <CardType_2>
            <CardTypeLabel2>VISA</CardTypeLabel2>
            <Transaction_1>
```

```
                    <TransType>Purchase/Compl</TransType>
                    <RecordCount>1</RecordCount>
                    <Amount>$           1.00</Amount>
              </Transaction_1>
              <Transaction_2>
                    <TransType>Refund</TransType>
                    <RecordCount>0</RecordCount>
                    <Amount>$           0.00</Amount>
              </Transaction_2>
              <Transaction_3>
                    <TransType>Void Purchase</TransType>
                    <RecordCount>0</RecordCount>
                    <Amount>$           0.00</Amount>
              </Transaction_3>
              <Transaction_4>
                    <TransType>Void Refund</TransType>
                    <RecordCount>0</RecordCount>
                    <Amount>$           0.00</Amount>
              </Transaction_4>
              <Totals>
                    <RecordCount>1</RecordCount>
                    <Amount>$           1.00</Amount>
              </Totals>
        </CardType_2>
        <BatchTotals>
              <BatchSaleCount>0</BatchSaleCount>
              <BatchSaleAmount>$            0.00</BatchSaleAmount>
              <BatchTipCount>0</BatchTipCount>
              <BatchTipAmount>$           0.00</BatchTipAmount>
              <BatchCashbackCount>0</BatchCashbackCount>
              <BatchCashbackAmount>$
0.00</BatchCashbackAmount>
              <BatchTaxCount>0</BatchTaxCount>
              <BatchTaxAmount>$           0.00</BatchTaxAmount>
              <BatchSurchargeCount>0</BatchSurchargeCount>
              <BatchSurchargeAmount>$
0.00</BatchSurchargeAmount>
              <BatchRefundCount>0</BatchRefundCount>
              <BatchRefundAmount>$
0.00</BatchRefundAmount>
              <BatchVoidSaleCount>0</BatchVoidSaleCount>
              <BatchVoidSaleAmount>$
0.00</BatchVoidSaleAmount>
              <BatchVoidRefundCount>0</BatchVoidRefundCount>
              <BatchVoidRefundAmount>$
0.00</BatchVoidRefundAmount>
              <BatchTotalAmount>$          0.00</BatchTotalAmount>
        </BatchTotals>
     </ReportLabel2>
```

```
            <ReportLabel3>SETTLEMENT REPORT
          <BatchRespText>SETTLEMENT SUCCESSFUL</BatchRespText>
          </ReportLabel3>
      </ReportBody>
      <ReportFooter>
          <ReceiptFooter1>Footer1</ReceiptFooter1>
          <ReceiptFooter2>Footer2</ReceiptFooter2>
          <ReceiptFooter3>Footer3</ReceiptFooter3>
          <ReceiptFooter4>Footer4</ReceiptFooter4>
          <ReceiptFooter5>Footer5</ReceiptFooter5>
          <ReceiptFooter6>Footer6</ReceiptFooter6>
      </ReportFooter>
    </XMLReceipt>
</XMLResponse>
```

- RapidConnect is Host Captured and does not support settlement.

4.4.28 SHOW ADMIN MENU

This method calls BaseApp's Admin Menu.

Prototype	`public void performShowAdminMenu();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended[6]

4.4.29 SHOW DEVICE SETTINGS MENU

This method calls BaseApp's Device Settings Menu.

Prototype	`public void performShowDeviceSettingsMenu();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended[6]

4.4.30 SHOW REPRINT MENU

This method calls BaseApp's Reprint Menu.

Prototype	`public void performShowReprintMenu();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE

Application Type	Attended, Unattended[6]

4.4.31   TERMINAL DETAILS REPORT

This method calls BaseApp's Terminal Detail Report print function.

Prototype	`public void performBatchTerminalDetail();`
Mandatory Fields (See **Setting the Fields** for details)	Auto-Print
Optional Fields (See **Setting the Fields** for details)	User-Defined Echo Data
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_XMLDATA KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_JSONRCPT[6] KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

The following describes the XML format of KEY_RESPONSE_XMLDATA:

```
<XMLResponse>
    <XMLCmdType>BatchTerminalDetails</XMLCmdType>
    <XMLReceipt>
        <ReportHeader>
            <ReportLabel>TERMINAL DETAIL REPORT</ReportLabel>
            <ReceiptHeader1>AMP TEMP TERMINAL TESTING</ReceiptHeader1>
            <ReceiptHeader2>15 WERTHEIM CRT. UNITS 401-403</ReceiptHeader2>
            <ReceiptHeader3>RICHMOND HILL ON L4B3H7</ReceiptHeader3>
            <ReceiptHeader4>AMP TESTING KRISTENE CONCHA</ReceiptHeader4>
            <TransDate>06/26/19</TransDate>
            <TransTime>02:54:25</TransTime>
            <MerchantID>887000002726</BatchNo>
            <TerminalID>71134104</TerminalID>
            <FromDate>03/21/2020</FromDate>
```

```xml
            <FromTime>05:31 AM</FromTime>
            <ToDate>03/21/2020</ToDate>
            <ToTime>05:31 AM</ToTime>
            <BatchNo>238</BatchNo>
        </ReportHeader>
        <ReportBody>
            <Transaction_1>
                <TransDate>03/21/2020</TransDate>
                <TransTime>02:54:25</TransTime>
                <TransName>SALE</TransName>
                <InvoiceNo>000075</InvoiceNo>
               <AccountNumber>**0057</AccountNumber>
               <AuthNumber>552442</AuthNumber>
               <TotalAmount>$10.00</TransAmount>
            </Transaction_1>
            <Transaction_2>
                <TransDate>03/21/2020</TransDate>
                <TransTime>02:59:25</TransTime>
                    <TransName>SALE</TransName>
                     <InvoiceNo>000075</InvoiceNo>
               <AccountNumber>5**0057</AccountNumber>
               <AuthNumber>552442</AuthNumber>
               <ReferenceNumber>008610500941</ReferenceNumber>
               <TransAmount>$10.00</TransAmount>
               <TotalAmount>$0.00</TransAmount>
               <NetworkID>000000</NetworkID>
               <ReversedAmount>$10.00</ReversedAmount>
            </Transaction_2>
<TerminalTotals>
    <BatchTotalRecords>1</BatchTotalRecords>
    <TotalVoidCount>0</TotalVoidCount>
    <NetSales>$5.00</NetSales>
</TerminalTotals>
</ReportBody>
    </XMLReceipt>
</XMLResponse>
```

The returned XML format report is not supported by RapidConnect and should be implemented in JSON format, as demonstrated in the following code sample:

```json
{
    "layout": {
        "format": "condensed",
        "fontmaxchars": [
            {
                "regular": 34
            },
```

```json
        {
            "emphasis": 24
        },
        {
            "detail": 42
        }
    ]
},
"lines": [
    {
        "1": [
            {
                "type": "image",
                "align": "c",
                "image": "AMPLogoPrn.png"
            }
        ]
    },
    {
        "2": [
            {
                "type": "line",
                "align": "c",
                "size": "emphasis",
                "txt": "Merchant Name"
            }
        ]
    },
    {
        "3": [
            {
                "type": "line",
                "align": "c",
                "txt": "Merchant Address 1"
            }
        ]
    },
    {
        "4": [
            {
                "type": "line",
                "align": "c",
                "txt": "Merchant Address 2"
            }
        ]
    },
    {
        "5": [
            {
```

```json
                "type": "line",
                "align": "c",
                "txt": "Merchant Address 3"
            }
        ]
    },
    {
        "6": [
            {
                "type": "line",
                "align": "c",
                "txt": "Customer Service Phone Number"
            }
        ]
    },
    {
        "7": [
            {
                "type": "line",
                "align": "c",
                "txt": "123-456-7890"
            }
        ]
    },
    {
        "8": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "9": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "10": [
            {
                "type": "line",
                "align": "c",
                "txt": "TERMINAL DETAIL REPORT"
            }
        ]
    },
    {
        "11": [
```

```
            {
                "type": "nextline"
            }
        ]
    },
    {
        "12": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "10/01/2020",
                "txt2": "03:37PM"
            }
        ]
    },
    {
        "13": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "14": [
            {
                "type": "line",
                "align": "l",
                "txt": "Merchant ID: RCTST0000045177"
            }
        ]
    },
    {
        "15": [
            {
                "type": "line",
                "align": "l",
                "txt": "Term ID: 003"
            }
        ]
    },
    {
        "16": [
            {
                "type": "line",
                "align": "l",
                "txt": "From: 10/01/2020, 02:25PM"
            }
        ]
    },
```

```json
{
    "17": [
        {
            "type": "line",
            "align": "l",
            "txt": "To: 10/01/2020, 03:19PM"
        }
    ]
},
{
    "18": [
        {
            "type": "line",
            "align": "l",
            "txt": "Batch #: 5"
        }
    ]
},
{
    "19": [
        {
            "type": "nextline"
        }
    ]
},
{
    "20": [
        {
            "type": "line",
            "align": "c",
            "txt": "-------------------------------"
        }
    ]
},
{
    "21": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Date: 10/01/2020",
            "txt2": "Time: 02:25PM"
        }
    ]
},
{
    "22": [
        {
            "type": "line",
            "align": "lr",
```

```
            "txt1": "Inv #: 00000036",
            "txt2": "SALE"
        }
    ]
},
{
    "23": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Card #: ",
            "txt2": "************0119"
        }
    ]
},
{
    "24": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Auth #: ",
            "txt2": "014589"
        }
    ]
},
{
    "25": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Ref #: ",
            "txt2": "1664441189"
        }
    ]
},
{
    "26": [
        {
            "type": "line",
            "align": "c",
            "txt": "Amount:                $         10.00"
        }
    ]
},
{
    "27": [
        {
            "type": "line",
            "align": "c",
```

```
                "txt": "Tip:                     $          0.00"
            }
        ]
    },
    {
        "28": [
            {
                "type": "line",
                "align": "c",
                "txt": "TOTAL:                   $         10.00"
            }
        ]
    },
    {
        "29": [
            {
                "type": "line",
                "align": "c",
                "txt": "--------------------------------"
            }
        ]
    },
    {
        "30": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Date: 10/01/2020",
                "txt2": "Time: 02:28PM"
            }
        ]
    },
    {
        "31": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Inv #: 00000037",
                "txt2": "SALE"
            }
        ]
    },
    {
        "32": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Card #: ",
                "txt2": "************0119"
```

```
            }
        ]
    },
    {
        "33": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Auth #: ",
                "txt2": "061013"
            }
        ]
    },
    {
        "34": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Ref #: ",
                "txt2": "3833201514"
            }
        ]
    },
    {
        "35": [
            {
                "type": "line",
                "align": "c",
                "txt": "Amount:              $          10.00"
            }
        ]
    },
    {
        "36": [
            {
                "type": "line",
                "align": "c",
                "txt": "Tip:                 $           0.00"
            }
        ]
    },
    {
        "37": [
            {
                "type": "line",
                "align": "c",
                "txt": "TOTAL:               $          10.00"
            }
        ]
```

```
        },
        {
            "38": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "----------------------------------"
                }
            ]
        },
        {
            "39": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Date: 10/01/2020",
                    "txt2": "Time: 02:29PM"
                }
            ]
        },
        {
            "40": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Inv #: 00000037",
                    "txt2": "FORCE POST"
                }
            ]
        },
        {
            "41": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Card #: ",
                    "txt2": "************1165"
                }
            ]
        },
        {
            "42": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Auth #: ",
                    "txt2": "FREED "
                }
            ]
```

```
        },
        {
            "43": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Ref #: ",
                    "txt2": "3367740090"
                }
            ]
        },
        {
            "44": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Amount:                 $     2,500.00"
                }
            ]
        },
        {
            "45": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Tip:                    $         0.00"
                }
            ]
        },
        {
            "46": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "TOTAL:                  $     2,500.00"
                }
            ]
        },
        {
            "47": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "--------------------------------"
                }
            ]
        },
        {
            "48": [
```

```
        {
            "type": "line",
            "align": "lr",
            "txt1": "Date: 10/01/2020",
            "txt2": "Time: 02:30PM"
        }
    ]
},
{
    "49": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Inv #: 00000038",
            "txt2": "REFUND",
            "inverse": true
        }
    ]
},
{
    "50": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Card #: ",
            "txt2": "************1165"
        }
    ]
},
{
    "51": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Ref #: ",
            "txt2": "2556864649"
        }
    ]
},
{
    "52": [
        {
            "type": "line",
            "align": "c",
            "txt": "Amount:                $     2,500.00"
        }
    ]
},
{
```

```
    "53": [
        {
            "type": "line",
            "align": "c",
            "txt": "Tip:                      $          0.00"
        }
    ]
},
{
    "54": [
        {
            "type": "line",
            "align": "c",
            "txt": "TOTAL:                    $      2,500.00"
        }
    ]
},
{
    "55": [
        {
            "type": "line",
            "align": "c",
            "txt": "--------------------------------"
        }
    ]
},
{
    "56": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Date: 10/01/2020",
            "txt2": "Time: 02:53PM"
        }
    ]
},
{
    "57": [
        {
            "type": "line",
            "align": "lr",
            "txt1": "Inv #: 00000039",
            "txt2": "COMPLETION"
        }
    ]
},
{
    "58": [
        {
```

```
                    "type": "line",
                    "align": "lr",
                    "txt1": "Card #: ",
                    "txt2": "************5439"
                }
            ]
        },
        {
            "59": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Auth #: ",
                    "txt2": "036102"
                }
            ]
        },
        {
            "60": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Ref #: ",
                    "txt2": "0270165609"
                }
            ]
        },
        {
            "61": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Amount:              $         26.00"
                }
            ]
        },
        {
            "62": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Tip:                 $          0.00"
                }
            ]
        },
        {
            "63": [
                {
                    "type": "line",
```

```
                "align": "c",
                "txt": "TOTAL:                  $          26.00"
            }
        ]
    },
    {
        "64": [
            {
                "type": "line",
                "align": "c",
                "txt": "--------------------------------"
            }
        ]
    },
    {
        "65": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Date: 10/01/2020",
                "txt2": "Time: 03:01PM"
            }
        ]
    },
    {
        "66": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Inv #: 00000041",
                "txt2": "SALE"
            }
        ]
    },
    {
        "67": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Card #: ",
                "txt2": "************0010"
            }
        ]
    },
    {
        "68": [
            {
                "type": "line",
                "align": "lr",
```

```
                    "txt1": "Auth #: ",
                    "txt2": "029782"
                }
            ]
        },
        {
            "69": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Ref #: ",
                    "txt2": "3404958345"
                }
            ]
        },
        {
            "70": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Amount:            $       120.00"
                }
            ]
        },
        {
            "71": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Tip:               $         0.00"
                }
            ]
        },
        {
            "72": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "TOTAL:             $       120.00"
                }
            ]
        },
        {
            "73": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "--------------------------------"
                }
            ]
        },
```

```
            ]
        },
        {
            "74": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Date: 10/01/2020",
                    "txt2": "Time: 03:02PM"
                }
            ]
        },
        {
            "75": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Inv #: 00000042",
                    "txt2": "SALE"
                }
            ]
        },
        {
            "76": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Card #: ",
                    "txt2": "************0010"
                }
            ]
        },
        {
            "77": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Auth #: ",
                    "txt2": "000323"
                }
            ]
        },
        {
            "78": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "Ref #: ",
                    "txt2": "2844462604"
```

```
            }
        ]
    },
    {
        "79": [
            {
                "type": "line",
                "align": "c",
                "txt": "Amount:                 $        144.00"
            }
        ]
    },
    {
        "80": [
            {
                "type": "line",
                "align": "c",
                "txt": "Tip:                    $          0.00"
            }
        ]
    },
    {
        "81": [
            {
                "type": "line",
                "align": "c",
                "txt": "TOTAL:                  $        144.00"
            }
        ]
    },
    {
        "82": [
            {
                "type": "line",
                "align": "c",
                "txt": "--------------------------------"
            }
        ]
    },
    {
        "83": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "84": [
            {
```

```
                "type": "line",
                "align": "c",
                "txt": "TERMINAL TOTALS"
            }
        ]
    },
    {
        "85": [
            {
                "type": "line",
                "align": "c",
                "txt": "--------------------------------"
            }
        ]
    },
    {
        "86": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Total Records:",
                "txt2": "7"
            }
        ]
    },
    {
        "87": [
            {
                "type": "line",
                "align": "lr",
                "txt1": "Voided Transactions:",
                "txt2": "0"
            }
        ]
    },
    {
        "88": [
            {
                "type": "line",
                "align": "c",
                "txt": "Total Net Sales:    $        310.00"
            }
        ]
    },
    {
        "89": [
            {
                "type": "line",
                "align": "c",
```

```
                     "txt": "Total Tip:            $          0.00"
                }
            ]
        },
        {
            "90": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Total Cashback:      $          0.00"
                }
            ]
        },
        {
            "91": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "--------------------------------"
                }
            ]
        },
        {
            "92": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "93": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "END OF REPORT"
                }
            ]
        },
        {
            "94": [
                {
                    "type": "line",
                    "align": "c",
                    "size": "detail",
                    "txt": "AMP POS Version"
                }
            ]
        },
        {
```

```json
        "95": [
            {
                "type": "line",
                "align": "c",
                "size": "detail",
                "txt": "02.02.027_FDRha01.00.000"
            }
        ]
    },
    {
        "96": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "97": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "98": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "99": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "100": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "101": [
            {
                "type": "nextline"
            }
```

```
                ]
            }
        ]
    }
```

4.4.32 TERMINAL TOTAL REPORT

This method calls BaseApp's Terminal Total Report print function.

Prototype	`public void performBatchTerminalTotals();`
Mandatory Fields (See **Setting the Fields** for details)	Auto-Print
Optional Fields (See **Setting the Fields** for details)	User-Defined Echo Data
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_XMLDATA KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_JSONRCPT[6] KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

The following describes the XML format of KEY_RESPONSE_XMLDATA:

```
<XMLResponse>
    <XMLCmdType>BatchTerminalTotals</XMLCmdType>
    <XMLReceipt>
        <ReportHeader>
            <ReportLabel>TERMINAL TOTALS REPORT</ReportLabel>
            <ReceiptHeader1>AMP TEMP TERMINAL TESTING</ReceiptHeader1>
            <ReceiptHeader2>15 WERTHEIM CRT. UNITS 401-403</ReceiptHeader2>
            <ReceiptHeader3>RICHMOND HILL ON L4B3H7</ReceiptHeader3>
            <ReceiptHeader4>AMP TESTING KRISTENE CONCHA</ReceiptHeader4>
            <TransDate>06/26/19</TransDate>
            <TransTime>02:54:25</TransTime>
```

```
            <MerchantID>887000002726</BatchNo>
             <TerminalID>71134104</TerminalID>
            <FromDate>03/21/2020</FromDate>
            <FromTime>05:31 AM</FromTime>
            <ToDate>03/21/2020</ToDate>
            <ToTime>05:31 AM</ToTime>
            <BatchNo>238</BatchNo>
        </ReportHeader>
        <ReportBody>
            <CardTypeCount>1</CardTypeCount>
<CardType_1>
            <CardTypeLabel>MASTERCARD</CardTypeLabel>
            <Transaction_1>
                <TransType>Sale</TransName>
                <RecordCount>1</RecordCount>
                <Amount>$5.00</Amount>
            </Transaction_1>
<Transaction_2>
                <TransType>Return</TransName>
                <RecordCount>0</RecordCount>
                <Amount>$0.00</Amount>
            </Transaction_2>
<Transaction_3>
                <TransType>Void Sale</TransName>
                <RecordCount>0</RecordCount>
                <Amount>$0.00</Amount>
            </Transaction_3>
<Transaction_4>
                <TransType>Void Return</TransName>
                <RecordCount>0</RecordCount>
                <Amount>$0.00</Amount>
             </Transaction_4>
            <Totals>
                <RecordCount>1</RecordCount>
                <Amount>$5.00</Amount>
</Totals>
            </CardType_1>
        <BatchTotals>
            <BatchSaleCount>1</BatchSaleCount>
            <BatchSaleAmount>$10.00</BatchSaleAmount>
            <BatchRefundCount>0</BatchRefundCount>
            <BatchRefundAmount>$0.00</BatchRefundAmount>
            <BatchVoidSaleCount>0</BatchVoidSaleCount>
            <BatchVoidSaleAmount>$0.00</BatchVoidSaleAmount>
            <BatchVoidRefundCount>0</BatchVoidRefundCount>
            <BatchVoidRefundAmount>$0.00</BatchVoidRefundAmount>
<BatchTotalAmount >0</BatchTotalAmount>
        </BatchTotals>
</ReportBody>
```

```
    </XMLReceipt>
</XMLResponse>
```

The returned XML format report is not supported by RapidConnect and should be implemented in JSON format, as demonstrated in the following code sample:

```json
{
    "layout": {
        "format": "condensed",
        "fontmaxchars": [
            {
                "regular": 34
            },
            {
                "emphasis": 24
            },
            {
                "detail": 42
            }
        ]
    },
    "lines": [
        {
            "1": [
                {
                    "type": "image",
                    "align": "c",
                    "image": "AMPLogoPrn.png"
                }
            ]
        },
        {
            "2": [
                {
                    "type": "line",
                    "align": "c",
                    "size": "emphasis",
                    "txt": "Merchant Name"
                }
            ]
        },
        {
            "3": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Merchant Address 1"
                }
            ]
```

```json
        },
        {
            "4": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Merchant Address 2"
                }
            ]
        },
        {
            "5": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Merchant Address 3"
                }
            ]
        },
        {
            "6": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Customer Service Phone Number"
                }
            ]
        },
        {
            "7": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "123-456-7890"
                }
            ]
        },
        {
            "8": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "9": [
                {
                    "type": "nextline"
                }
```

```
            ]
        },
        {
            "10": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "TERMINAL TOTALS REPORT"
                }
            ]
        },
        {
            "11": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "12": [
                {
                    "type": "line",
                    "align": "lr",
                    "txt1": "10/01/2020",
                    "txt2": "03:35PM"
                }
            ]
        },
        {
            "13": [
                {
                    "type": "nextline"
                }
            ]
        },
        {
            "14": [
                {
                    "type": "line",
                    "align": "l",
                    "txt": "Merchant ID: RCTST0000045177"
                }
            ]
        },
        {
            "15": [
                {
                    "type": "line",
                    "align": "l",
```

```
            "txt": "Term ID: 003"
        }
    ]
},
{
    "16": [
        {
            "type": "line",
            "align": "l",
            "txt": "From: 10/01/2020, 02:25PM"
        }
    ]
},
{
    "17": [
        {
            "type": "line",
            "align": "l",
            "txt": "To: 10/01/2020, 03:02PM"
        }
    ]
},
{
    "18": [
        {
            "type": "line",
            "align": "l",
            "txt": "Batch #: 5"
        }
    ]
},
{
    "19": [
        {
            "type": "nextline"
        }
    ]
},
{
    "20": [
        {
            "type": "line",
            "align": "l",
            "txt": "VISA"
        }
    ]
},
{
    "21": [
```

```
                {
                    "type": "line",
                    "align": "c",
                    "txt": "--------------------------------"
                }
            ]
        },
        {
            "22": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Transaction     Count       Amount"
                }
            ]
        },
        {
            "23": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "--------------------------------"
                }
            ]
        },
        {
            "24": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Sale              5       $  310.00"
                }
            ]
        },
        {
            "25": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Refund            0       $    0.00"
                }
            ]
        },
        {
            "26": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Void Sale         0       $    0.00"
```

```
            }
        ]
    },
    {
        "27": [
            {
                "type": "line",
                "align": "c",
                "txt": "Void Refund       0          $     0.00"
            }
        ]
    },
    {
        "28": [
            {
                "type": "line",
                "align": "c",
                "txt": "--------------------------------"
            }
        ]
    },
    {
        "29": [
            {
                "type": "line",
                "align": "c",
                "txt": "TOTAL:              5          $  310.00"
            }
        ]
    },
    {
        "30": [
            {
                "type": "line",
                "align": "c",
                "txt": "---------------------------------"
            }
        ]
    },
    {
        "31": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "32": [
            {
```

```
                "type": "line",
                "align": "l",
                "txt": "MASTERCARD"
            }
        ]
    },
    {
        "33": [
            {
                "type": "line",
                "align": "c",
                "txt": "--------------------------------"
            }
        ]
    },
    {
        "34": [
            {
                "type": "line",
                "align": "c",
                "txt": "Transaction      Count        Amount"
            }
        ]
    },
    {
        "35": [
            {
                "type": "line",
                "align": "c",
                "txt": "--------------------------------"
            }
        ]
    },
    {
        "36": [
            {
                "type": "line",
                "align": "c",
                "txt": "Sale                1        2,500.00"
            }
        ]
    },
    {
        "37": [
            {
                "type": "line",
                "align": "c",
                "txt": "Refund              1        2,500.00"
            }
```

```
            ]
        },
        {
            "38": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Void Sale         0          $  0.00"
                }
            ]
        },
        {
            "39": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "Void Refund       0          $  0.00"
                }
            ]
        },
        {
            "40": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "--------------------------------"
                }
            ]
        },
        {
            "41": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "TOTAL:             2          $  0.00"
                }
            ]
        },
        {
            "42": [
                {
                    "type": "line",
                    "align": "c",
                    "txt": "--------------------------------"
                }
            ]
        },
        {
            "43": [
```

```
        {
            "type": "nextline"
        }
    ]
},
{
    "44": [
        {
            "type": "nextline"
        }
    ]
},
{
    "45": [
        {
            "type": "line",
            "align": "c",
            "txt": "GRAND TOTALS"
        }
    ]
},
{
    "46": [
        {
            "type": "line",
            "align": "c",
            "txt": "--------------------------------"
        }
    ]
},
{
    "47": [
        {
            "type": "line",
            "align": "c",
            "txt": "Total Sales:     6  $     2,810.00"
        }
    ]
},
{
    "48": [
        {
            "type": "line",
            "align": "c",
            "txt": "Total Refund:    1  $    -2,500.00"
        }
    ]
},
{
```

```
        "49": [
            {
                "type": "line",
                "align": "l",
                "txt": "Total Void:"
            }
        ]
    },
    {
        "50": [
            {
                "type": "line",
                "align": "c",
                "txt": "      Sale          0  $           0.00"
            }
        ]
    },
    {
        "51": [
            {
                "type": "line",
                "align": "c",
                "txt": "      Return        0  $           0.00"
            }
        ]
    },
    {
        "52": [
            {
                "type": "line",
                "align": "c",
                "txt": "Total Tip:          0  $           0.00"
            }
        ]
    },
    {
        "53": [
            {
                "type": "line",
                "align": "c",
                "txt": "--------------------------------"
            }
        ]
    },
    {
        "54": [
            {
                "type": "line",
                "align": "c",
```

```
            "txt": "TOTAL:                    $         310.00"
        }
    ]
},
{
    "55": [
        {
            "type": "nextline"
        }
    ]
},
{
    "56": [
        {
            "type": "nextline"
        }
    ]
},
{
    "57": [
        {
            "type": "line",
            "align": "c",
            "txt": "END OF REPORT"
        }
    ]
},
{
    "58": [
        {
            "type": "line",
            "align": "c",
            "size": "detail",
            "txt": "AMP POS Version"
        }
    ]
},
{
    "59": [
        {
            "type": "line",
            "align": "c",
            "size": "detail",
            "txt": "02.02.027_FDRha01.00.000"
        }
    ]
},
{
    "60": [
```

```json
            {
                "type": "nextline"
            }
        ]
    },
    {
        "61": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "62": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "63": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "64": [
            {
                "type": "nextline"
            }
        ]
    },
    {
        "65": [
            {
                "type": "nextline"
            }
        ]
    }
    ]
}
```

4.4.33   TMS DOWNLOAD

This method calls BaseApp's TMS Download function.

Prototype	`public void performTMSDownload();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

4.4.34   UPLOAD AUDIT LOGS

This method calls BaseApp's Upload Audit Logs function.

Prototype	`public void performTMSUploadAuditLogs();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE

Application Type	Attended, Unattended

4.4.35 VOID

This method calls BaseApp's Void transaction. Unattended applications always void the last transaction and therefore **Void Type** and **Void Number** are not required. For Global Payments Unattended BaseApp, **Void Type** and **Void Number** are optional fields to process the Void transaction via Auth Code.

Prototype	`public void performVoid();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print** **Void Type**[2] **Void Number**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_MERCH_NAME KEY_RESPONSE_MERCH_ADD1 KEY_RESPONSE_MERCH_ADD2 KEY_RESPONSE_CUST_SERV_PHONE KEY_RESPONSE_TIME KEY_RESPONSE_DATE KEY_RESPONSE_TID KEY_RESPONSE_MID KEY_RESPONSE_TRANSNAME KEY_RESPONSE_CARD_HOLDER_NAME KEY_RESPONSE_CARDLABEL KEY_RESPONSE_PAN KEY_RESPONSE_EXPIRYDATE KEY_RESPONSE_TRACK1

	KEY_RESPONSE_TRACK2
	KEY_RESPONSE_ENTRYMODE
	KEY_RESPONSE_CVM
	KEY_RESPONSE_INVOICENUM
	KEY_RESPONSE_CLERKID
	KEY_RESPONSE_STORENUM
	KEY_RESPONSE_TRACENUM
	KEY_RESPONSE_BATCHNUM
	KEY_RESPONSE_USER_DEFINED_ECHO_DATA
	KEY_RESPONSE_BASEAMT
	KEY_RESPONSE_TIPAMT
	KEY_RESPONSE_CASHBKAMT
	KEY_RESPONSE_SURCHARGEAMT
	KEY_RESPONSE_TOTALAMT
	KEY_RESPONSE_TVR
	KEY_RESPONSE_AID
	KEY_RESPONSE_AUTHCODE
	KEY_RESPONSE_SEQUENCENUM
	KEY_RESPONSE_CURRENCY
	KEY_RESPONSE_IAD
	KEY_RESPONSE_TSI
	KEY_RESPONSE_ARC
	KEY_RESPONSE_CODE
	KEY_RESPONSE_TEXT
	KEY_RESPONSE_APPPREFNAME
	KEY_RESPONSE_TC
	KEY_RESPONSE_HOSTTIMESTAMP

	KEY_RESPONSE_TRANSREF
	KEY_RESPONSE_RESULTCODE
	KEY_RESPONSE_TOKEN_DATA
	KEY_RESPONSE_HEADER1
	KEY_RESPONSE_HEADER2
	KEY_RESPONSE_HEADER3
	KEY_RESPONSE_HEADER4
	KEY_RESPONSE_HEADER5
	KEY_RESPONSE_HEADER6
	KEY_RESPONSE_FOOTER1
	KEY_RESPONSE_FOOTER2
	KEY_RESPONSE_FOOTER3
	KEY_RESPONSE_FOOTER4
	KEY_RESPONSE_FOOTER5
	KEY_RESPONSE_FOOTER6
	KEY_RESPONSE_TRANSID
	KEY_RESPONSE_CASHBACKFEE
	KEY_RESPONSE_NONCASHFEE
	KEY_RESPONSE_EMV_SETTLEDATE
	KEY_RESPONSE_EMV_NETWORKID
	KEY_RESPONSE_APP_VERSION
	KEY_RESPONSE_EXPIRYDATE
	KEY_RESPONSE_EMV_APPLABEL[3,6]
	KEY_RESPONSE_EMV_APPLPAN[3,6]
	KEY_RESPONSE_EMV_CURRENCYCODE[3,6]
	KEY_RESPONSE_EMV_PANSEQNUM[3,6]
	KEY_RESPONSE_EMV_AIP[3,6]

KEY_RESPONSE_EMV_TVR[3,6]

KEY_RESPONSE_EMV_TRANSDATE[3,6]

KEY_RESPONSE_EMV_TRANSTYPE[3,6]

KEY_RESPONSE_EMV_AMT_AUTH[3,6]

KEY_RESPONSE_EMV_OTH_AMT[3,6]

KEY_RESPONSE_APP_USAGE_CTRL[3,6]

KEY_RESPONSE_EMV_IAC_ONLINE[3,6]

KEY_RESPONSE_EMV_IAC_DEFAULT[3,6]

KEY_RESPONSE_EMV_IAC_DENIAL[3,6]

KEY_RESPONSE_APPPREFNAME[3,6]

KEY_RESPONSE_EMV_TERM_CCODE[3,6]

KEY_RESPONSE_EMV_AC[3,6]

KEY_RESPONSE_EMV_CID[3,6]

KEY_RESPONSE_EMV_IAD[3]

KEY_RESPONSE_EMV_CVM[3]

KEY_RESPONSE_EMV_ATC[3,6]

KEY_RESPONSE_EMV_UNPRED_NUM[3]

KEY_RESPONSE_EMV_TAC_ONLINE[3]

KEY_RESPONSE_EMV_TAC_DEFAULT[3]

KEY_RESPONSE_EMV_TAC_DENIAL[3]

KEY_RESPONSE_REVERSAL_AMT

KEY_RESPONSE_APP_VERSION

KEY_RESPONSE_EMV_APP_TRANSDATA[3,6]

KEY_RESPONSE_CODE_ISO[4]

KEY_RESPONSE_SWVER[4]

KEY_RESPONSE_ISSUERNAME[5]

KEY_RESPONSE_GATEWAYTRANSID[5]

	KEY_RESPONSE_BANKRESPONSECODE[5]
	KEY_RESPONSE_AVAILABLE_AMT[5]
	KEY_RESPONSE_JSONRCPT[6]
	KEY_RESPONSE_EMV_CAPK_INDEX_KEY
	KEY_RESPONSE_DEMO_MODE
	KEY_RESPONSE_LOCALTIME[8]
	KEY_RESPONSE_LOCALDATE[8]
Application Type	Attended, Unattended

4.5 HOST-SPECIFIC TRANSACTIONS

The following list describes processor specific methods that can be triggered from a non-payment application.

Please refer to the following legend for the exceptions:

Legend	Description
1	Fields are only applicable to manual entry mode in Attended applications.
2	Fields are applicable to both Attended and Unattended applications
3	Response values are only applicable to declined transactions in TSYS BaseApp

4.5.1 TSYS PROCESSOR

1) **Terminal Initialization (Terminal Login)**. This method calls the TSYS BaseApp's Terminal Initialization function.

Prototype	`public void performTerminalInitialization();`
Mandatory Fields (See **Setting the Fields** for details)	None

Optional Fields	User-Defined Echo Data
(See **Setting the Fields** for details)	
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

2) **Terminal Logout**. This method calls the TSYS BaseApp's Terminal Logout function.

Prototype	`public void performTerminalLogout();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	User-Defined Echo Data
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

3) **Transaction Adjust**. This method calls BaseApp's Transaction Adjust transaction. For TSYS, this is specifically used for the tip adjustment only (see section **4.3.2 - Adjust Amount Type**).

Prototype	`public void performTransactionAdjust();`
Mandatory Fields	**Auto-Print** **Base Amount**

(See **Setting the Fields** for details)	**Adjust Amount Type** **Adjust Category Type** **Adjust Number** **Set Clerk ID**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_MERCH_NAME KEY_RESPONSE_MERCH_ADD1 KEY_RESPONSE_MERCH_ADD2 KEY_RESPONSE_CUST_SERV_PHONE KEY_RESPONSE_TIME KEY_RESPONSE_DATE KEY_RESPONSE_TID KEY_RESPONSE_MID KEY_RESPONSE_TRANSNAME KEY_RESPONSE_CARD_HOLDER_NAME KEY_RESPONSE_CARDLABEL KEY_RESPONSE_PAN KEY_RESPONSE_EXPIRYDATE KEY_RESPONSE_TRACK1 KEY_RESPONSE_TRACK2 KEY_RESPONSE_ENTRYMODE KEY_RESPONSE_CVM KEY_RESPONSE_INVOICENUM KEY_RESPONSE_CLERKID KEY_RESPONSE_STORENUM

	KEY_RESPONSE_TRACENUM
	KEY_RESPONSE_BATCHNUM
	KEY_RESPONSE_USER_DEFINED_ECHO_DATA
	KEY_RESPONSE_BASEAMT
	KEY_RESPONSE_TIPAMT
	KEY_RESPONSE_TOTALAMT
	KEY_RESPONSE_TVR
	KEY_RESPONSE_AID
	KEY_RESPONSE_AUTHCODE
	KEY_RESPONSE_SEQUENCENUM
	KEY_RESPONSE_CURRENCY
	KEY_RESPONSE_IAD
	KEY_RESPONSE_TSI
	KEY_RESPONSE_ARC
	KEY_RESPONSE_CODE
	KEY_RESPONSE_TEXT
	KEY_RESPONSE_APPPREFNAME
	KEY_RESPONSE_TC
	KEY_RESPONSE_HOSTTIMESTAMP
	KEY_RESPONSE_TRANSREF
	KEY_RESPONSE_RESULTCODE
	KEY_RESPONSE_HEADER1
	KEY_RESPONSE_HEADER2
	KEY_RESPONSE_HEADER3
	KEY_RESPONSE_HEADER4
	KEY_RESPONSE_HEADER5
	KEY_RESPONSE_HEADER6

	KEY_RESPONSE_FOOTER1
	KEY_RESPONSE_FOOTER2
	KEY_RESPONSE_FOOTER3
	KEY_RESPONSE_FOOTER4
	KEY_RESPONSE_FOOTER5
	KEY_RESPONSE_FOOTER6
	KEY_RESPONSE_TRANSID
	KEY_RESPONSE_APP_VERSION
	KEY_RESPONSE_ISSUERNAME
	KEY_RESPONSE_LOCALTIME
	KEY_RESPONSE_LOCALDATE
	KEY_RESPONSE_LANE_ID
Application Type	Attended

4) **Electronic Benefit Transfer (EBT) Transactions**

Legend	Description
No Marking	Field is used in all TSYS EBT Transaction
A	Field is mandatory exclusively for Voucher Sale/Voucher Clear Transaction
B	Field is not used in the EBT Balance Inquiry
C	Field is mandatory exclusively for Reenter Transaction

Prototype	`public void performEbt();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print** **Card Entry Method** **Card Number (PAN)** **Expiry Date**

	Card Security Code / Card Verification Value
	EBT Type
	EBT SubType
	EBT Voucher Type
	EBT Reenter Type [C]
	EBT Reenter Card Entry Type [C]
	Base Amount [B]
	EBT Voucher Serial Number [A]
	EBT Voucher Code [A]
	EBT Reenter Network Id [C]
	EBT Reenter Settlement Date[C]
	EBT Reenter Authorization Date [C]
	EBT Reenter Authorization Time [C]
	EBT Reenter Transaction Id [C]
	EBT Reenter Trace Number [C]
	EBT Reenter Reference Number[C]
	EBT Reenter Authorization Code [C]
	EBT Reenter Response Code[C]
Optional Fields (See **Setting the Fields** for details)	User-Defined Echo Data
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_MERCH_NAME KEY_RESPONSE_MERCH_ADD1 KEY_RESPONSE_MERCH_ADD2 KEY_RESPONSE_CUST_SERV_PHONE KEY_RESPONSE_TIME KEY_RESPONSE_DATE

	KEY_RESPONSE_TID
	KEY_RESPONSE_MID
	KEY_RESPONSE_TRANSNAME
	KEY_RESPONSE_CARD_HOLDER_NAME
	KEY_RESPONSE_CARDLABEL
	KEY_RESPONSE_PAN
	KEY_RESPONSE_EXPIRYDATE
	KEY_RESPONSE_TRACK1
	KEY_RESPONSE_TRACK2
	KEY_RESPONSE_ENTRYMODE
	KEY_RESPONSE_CVM
	KEY_RESPONSE_INVOICENUM
	KEY_RESPONSE_CLERKID
	KEY_RESPONSE_STORENUM
	KEY_RESPONSE_TRACENUM
	KEY_RESPONSE_BATCHNUM
	KEY_RESPONSE_USER_DEFINED_ECHO_DATA
	KEY_RESPONSE_BASEAMT
	KEY_RESPONSE_TIPAMT
	KEY_RESPONSE_CASHBKAMT
	KEY_RESPONSE_SURCHARGEAMT
	KEY_RESPONSE_TOTALAMT
	KEY_RESPONSE_TVR
	KEY_RESPONSE_AID
	KEY_RESPONSE_AUTHCODE
	KEY_RESPONSE_SEQUENCENUM
	KEY_RESPONSE_CURRENCY

	KEY_RESPONSE_IAD
	KEY_RESPONSE_TSI
	KEY_RESPONSE_ARC
	KEY_RESPONSE_CODE
	KEY_RESPONSE_TEXT
	KEY_RESPONSE_TC
	KEY_RESPONSE_HOSTTIMESTAMP
	KEY_RESPONSE_TRANSREF
	KEY_RESPONSE_RESULTCODE
	KEY_RESPONSE_TOKEN_DATA
	KEY_RESPONSE_HEADER1
	KEY_RESPONSE_HEADER2
	KEY_RESPONSE_HEADER3
	KEY_RESPONSE_HEADER4
	KEY_RESPONSE_HEADER5
	KEY_RESPONSE_HEADER6
	KEY_RESPONSE_FOOTER1
	KEY_RESPONSE_FOOTER2
	KEY_RESPONSE_FOOTER3
	KEY_RESPONSE_FOOTER4
	KEY_RESPONSE_FOOTER5
	KEY_RESPONSE_FOOTER6
	KEY_RESPONSE_TRANSID
	KEY_RESPONSE_CASHBACKFEE
	KEY_RESPONSE_NONCASHFEE
	KEY_RESPONSE_EMV_SETTLEDATE
	KEY_RESPONSE_EMV_NETWORKID

	KEY_RESPONSE_EMV_APPLABEL
	KEY_RESPONSE_EMV_APPLPAN
	KEY_RESPONSE_EMV_CURRENCYCODE
	KEY_RESPONSE_EMV_PANSEQNUM
	KEY_RESPONSE_EMV_AIP
	KEY_RESPONSE_EMV_TVR
	KEY_RESPONSE_EMV_TRANSDATE
	KEY_RESPONSE_EMV_TRANSTYPE
	KEY_RESPONSE_EMV_AMT_AUTH
	KEY_RESPONSE_EMV_OTH_AMT
	KEY_RESPONSE_APP_USAGE_CTRL
	KEY_RESPONSE_EMV_IAC_ONLINE
	KEY_RESPONSE_EMV_IAC_DEFAULT
	KEY_RESPONSE_EMV_IAC_DENIAL
	KEY_RESPONSE_APPPREFNAME
	KEY_RESPONSE_EMV_TERM_CCODE
	KEY_RESPONSE_EMV_AC
	KEY_RESPONSE_EMV_CID
	KEY_RESPONSE_EMV_IAD
	KEY_RESPONSE_EMV_CVM
	KEY_RESPONSE_EMV_ATC
	KEY_RESPONSE_EMV_UNPRED_NUM
	KEY_RESPONSE_EMV_TAC_ONLINE
	KEY_RESPONSE_EMV_TAC_DEFAULT
	KEY_RESPONSE_EMV_TAC_DENIAL
	KEY_RESPONSE_REVERSAL_AMT
	KEY_RESPONSE_APP_VERSION

	KEY_RESPONSE_EMV_APP_TRANSDATA
	KEY_RESPONSE_ISSUERNAME
	KEY_RESPONSE_AVAILABLE_AMT
	KEY_RESPONSE_JSONRCPT
	KEY_RESPONSE_DEMO_MODE
	KEY_RESPONSE_LOCALTIME
	KEY_RESPONSE_LOCALDATE
	KEY_RESPONSE_LANE_ID
	KEY_RESPONSE_EBT_VOUCHER_SERIAL[A]
	KEY_RESPONSE_EBT_VOUCHER_CODE [A]
Application Type	Attended

4.5.2 PAYFACTO PROCESSOR

1) **Terminal Initialization**. This method calls the PayFacto BaseApp's Terminal Initialization (Key Exchange, Host Parameter Download, and EMV Download) function.

Prototype	`public void performTerminalInitialization();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION
Application Type	Attended, Unattended

2) **Key Exchange**. This method calls the PayFacto BaseApp's Key Exchange function.

Prototype	`public void performKeyExchange();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION
Application Type	Attended, Unattended

3) **Host Parameter Download**. This method calls the PayFacto BaseApp's Host Parameter Download function.

Prototype	`public void performDLParam();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION
Application Type	Attended, Unattended

4) **EMV Download**. This method calls the Payfacto BaseApp's EMV Parameter Download function.

Prototype	`public void performDLEMV();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION
Application Type	Attended, Unattended

5) **Host Detail Report.** This method calls the PayFacto BaseApp's Host Detail Report print function.

Prototype	`public void performBatchHostDetail();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_XMLDATA KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION
Application Type	Attended, Unattended

The following describes the XML format in KEY_RESPONSE_XMLDATA:

```
<XMLResponse>
    <XMLCmdType> BatchHostDetail </XMLCmdType>
    <XMLReceipt>
        <ReportHeader>
            <ReceiptHeader1>AMP TEMP TERMINAL
TESTING</ReceiptHeader1>
            <ReceiptHeader2>15 WERTHEIM CRT. UNITS 401-
403</ReceiptHeader2>
            <ReceiptHeader3>RICHMOND HILL ON L4B3H7</ReceiptHeader3>
            <ReceiptHeader4>AMP TESTING KRISTENE
CONCHA</ReceiptHeader4>
            <TransDate>07/31/18</TransDate>
            <TransTime>00:58:44</TransTime>
            <BatchNo>0140</BatchNo>
            <TerminalID>AMP00001</TerminalID>
        </ReportHeader>
        <ReportBody>
            <CardType_1>
                <CardTypeLabel>VISA</CardTypeLabel>
                <Invoice_1>
                    <InvoiceNo>0000002</InvoiceNo>
                    <Amount>$10.00</Amount>
```

```
                    </Invoice_1>
                  </CardType_1>
                </ReportBody>
            </XMLReceipt>
        </XMLResponse>
```

6) **Host Total Report**. This method calls the PayFacto BaseApp's Host Totals Report print function.

Prototype	`public void performBatchHostTotals();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_XMLDATA KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION
Application Type	Attended, Unattended

The following describes the XML format in KEY_RESPONSE_XMLDATA:

```
<XMLResponse>
    <XMLCmd>MIS</XMLCmd>
    <XMLCmdType> BatchHostTotals </XMLCmdType>
    <XMLReceipt>
        <ReportHeader>
            <ReceiptHeader1>AMP TEMP TERMINAL TESTING</ReceiptHeader1>
            <ReceiptHeader2>15 WERTHEIM CRT. UNITS 401-403</ReceiptHeader2>
            <ReceiptHeader3>RICHMOND HILL ON L4B3H7</ReceiptHeader3>
            <ReceiptHeader4>AMP TESTING KRISTENE CONCHA</ReceiptHeader4>
            <TransDate>06/26/19</TransDate>
            <TransTime>02:12:02</TransTime>
            <BatchNo>0101</BatchNo>
            <TerminalID>AMP00006</TerminalID>
            <ReportLabel>HOST TOTALS REPORT</ReportLabel>
```

```
        </ReportHeader>
        <ReportBody>
            <CardTypeCount>6</CardTypeCount>
            <CardType_1>
                <CardTypeLabel>MCRD</CardTypeLabel>
                <RecordCount>7</RecordCount>
                <Amount>$          30.00</Amount>
                <MatchFlag>=</MatchFlag>
            </CardType_1>
            <CardType_2>
                <CardTypeLabel>VISA</CardTypeLabel>
                <RecordCount>0</RecordCount>
                <Amount>$           0.00</Amount>
                <MatchFlag>=</MatchFlag>
            </CardType_2>
            <CardType_3>
                <CardTypeLabel>DISC</CardTypeLabel>
                <RecordCount>0</RecordCount>
                <Amount>$           0.00</Amount>
                <MatchFlag>=</MatchFlag>
            </CardType_3>
            <CardType_4>
                <CardTypeLabel>DEBT</CardTypeLabel>
                <RecordCount>0</RecordCount>
                <Amount>$           0.00</Amount>
                <MatchFlag>=</MatchFlag>
            </CardType_4>
            <CardType_5>
                <CardTypeLabel>JCB</CardTypeLabel>
                <RecordCount>0</RecordCount>
                <Amount>$           0.00</Amount>
                <MatchFlag>=</MatchFlag>
            </CardType_5>
            <CardType_6>
                <CardTypeLabel>AMEX</CardTypeLabel>
                <RecordCount>0</RecordCount>
                <Amount>$           0.00</Amount>
                <MatchFlag>=</MatchFlag>
            </CardType_6>
            <Total>$          30.00  </Total>
            <BatchRespText>== BATCH TOTALS MATCH ==</BatchRespText>
        </ReportBody>
    </XMLReceipt>
</XMLResponse>
```

4.5.3 GLOBAL PAYMENT PROCESSOR

1) **Transaction Adjust**. This method calls BaseApp's Transaction Adjust transaction.

Prototype	`public void performTransactionAdjust();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print** **Base Amount** **Adjust Amount Type** **Adjust Number**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_MERCH_NAME KEY_RESPONSE_MERCH_ADD1 KEY_RESPONSE_MERCH_ADD2 KEY_RESPONSE_CUST_SERV_PHONE KEY_RESPONSE_TIME KEY_RESPONSE_DATE KEY_RESPONSE_TID KEY_RESPONSE_MID KEY_RESPONSE_TRANSNAME KEY_RESPONSE_CARD_HOLDER_NAME KEY_RESPONSE_CARDLABEL KEY_RESPONSE_PAN KEY_RESPONSE_EXPIRYDATE KEY_RESPONSE_TRACK1 KEY_RESPONSE_TRACK2 KEY_RESPONSE_ENTRYMODE KEY_RESPONSE_CVM

	KEY_RESPONSE_INVOICENUM
	KEY_RESPONSE_CLERKID
	KEY_RESPONSE_STORENUM
	KEY_RESPONSE_TRACENUM
	KEY_RESPONSE_BATCHNUM
	KEY_RESPONSE_USER_DEFINED_ECHO_DATA
	KEY_RESPONSE_BASEAMT
	KEY_RESPONSE_TIPAMT
	KEY_RESPONSE_TOTALAMT
	KEY_RESPONSE_TVR
	KEY_RESPONSE_AID
	KEY_RESPONSE_AUTHCODE
	KEY_RESPONSE_SEQUENCENUM
	KEY_RESPONSE_CURRENCY
	KEY_RESPONSE_IAD
	KEY_RESPONSE_TSI
	KEY_RESPONSE_ARC
	KEY_RESPONSE_CODE
	KEY_RESPONSE_TEXT
	KEY_RESPONSE_APPPREFNAME
	KEY_RESPONSE_TC
	KEY_RESPONSE_HOSTTIMESTAMP
	KEY_RESPONSE_TRANSREF
	KEY_RESPONSE_RESULTCODE
	KEY_RESPONSE_HEADER1
	KEY_RESPONSE_HEADER2
	KEY_RESPONSE_HEADER3

	KEY_RESPONSE_HEADER4
	KEY_RESPONSE_HEADER5
	KEY_RESPONSE_HEADER6
	KEY_RESPONSE_FOOTER1
	KEY_RESPONSE_FOOTER2
	KEY_RESPONSE_FOOTER3
	KEY_RESPONSE_FOOTER4
	KEY_RESPONSE_FOOTER5
	KEY_RESPONSE_FOOTER6
	KEY_RESPONSE_TRANSID
	KEY_RESPONSE_APP_VERSION
	KEY_RESPONSE_ISSUERNAME
	KEY_RESPONSE_GATEWAYTRANSID
	KEY_RESPONSE_BANKRESPONSECODE
Application Type	Attended

2) **Balance Inquiry**. This method calls BaseApp's Balance Inquiry transaction.

Prototype	`public void performBalanceInquiry();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print** **Card Entry MethodCard Number (PAN)** **Expiry Date** **Card Security Code / Card Verification Value**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response	KEY_RESPONSE_MERCH_NAME KEY_RESPONSE_MERCH_ADD1

(Refer to **Appendix A** for description of each key)	KEY_RESPONSE_MERCH_ADD2
	KEY_RESPONSE_CUST_SERV_PHONE
	KEY_RESPONSE_TIME
	KEY_RESPONSE_DATE
	KEY_RESPONSE_TID
	KEY_RESPONSE_MID
	KEY_RESPONSE_TRANSNAME
	KEY_RESPONSE_CARD_HOLDER_NAME
	KEY_RESPONSE_CARDLABEL
	KEY_RESPONSE_PAN
	KEY_RESPONSE_EXPIRYDATE
	KEY_RESPONSE_TRACK1
	KEY_RESPONSE_TRACK2
	KEY_RESPONSE_ENTRYMODE
	KEY_RESPONSE_CVM
	KEY_RESPONSE_INVOICENUM
	KEY_RESPONSE_CLERKID
	KEY_RESPONSE_STORENUM
	KEY_RESPONSE_TRACENUM
	KEY_RESPONSE_BATCHNUM
	KEY_RESPONSE_USER_DEFINED_ECHO_DATA
	KEY_RESPONSE_TVR
	KEY_RESPONSE_AID
	KEY_RESPONSE_AUTHCODE
	KEY_RESPONSE_SEQUENCENUM
	KEY_RESPONSE_CURRENCY
	KEY_RESPONSE_IAD

	KEY_RESPONSE_TSI
	KEY_RESPONSE_ARC
	KEY_RESPONSE_CODE
	KEY_RESPONSE_TEXT
	KEY_RESPONSE_TC
	KEY_RESPONSE_HOSTTIMESTAMP
	KEY_RESPONSE_TRANSREF
	KEY_RESPONSE_RESULTCODE
	KEY_RESPONSE_HEADER1
	KEY_RESPONSE_HEADER2
	KEY_RESPONSE_HEADER3
	KEY_RESPONSE_HEADER4
	KEY_RESPONSE_HEADER5
	KEY_RESPONSE_HEADER6
	KEY_RESPONSE_FOOTER1
	KEY_RESPONSE_FOOTER2
	KEY_RESPONSE_FOOTER3
	KEY_RESPONSE_FOOTER4
	KEY_RESPONSE_FOOTER5
	KEY_RESPONSE_FOOTER6
	KEY_RESPONSE_APP_VERSION
	KEY_RESPONSE_CODE_ISO
	KEY_RESPONSE_ISSUERNAME
	KEY_RESPONSE_GATEWAYTRANSID
	KEY_RESPONSE_BANKRESPONSECODE
	KEY_RESPONSE_AVAILABLE_AMT
Application Type	Attended

3) **Account Verify**. This method calls BaseApp's Account Verify transaction.

Prototype	`public void performAccountVerify();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print** **Card Entry Method** **Card Number (PAN)** **Expiry Date** **Card Security Code / Card Verification Value**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_CODE KEY_RESPONSE_TEXT KEY_RESPONSE_RESULTCODE KEY_RESPONSE_APP_VERSION
Application Type	Attended

4) **Sign In/Sign Out Operator**. This method calls BaseApp's Sign In/Sign Out Operator function.

Prototype	`public void performSigninSignoutOperator();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_RESULTCODE KEY_RESPONSE_APP_VERSION
Application Type	Attended

4.5.4 RAPIDCONNECT PROCESSOR

1) **Incremental Auth.** This method calls the BaseApp's Incremental Auth function.

Prototype	`public void performIncrementalAuth();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print** **Base Amount** **Incremental Auth Number** **Incremental Auth Type**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_HEADER1 KEY_RESPONSE_HEADER2 KEY_RESPONSE_HEADER3 KEY_RESPONSE_HEADER4 KEY_RESPONSE_HEADER5 KEY_RESPONSE_HEADER6 KEY_RESPONSE_TIME KEY_RESPONSE_DATE KEY_RESPONSE_TID KEY_RESPONSE_MID KEY_RESPONSE_TRANSNAME KEY_RESPONSE_CARD_HOLDER_NAME KEY_RESPONSE_CARDLABEL KEY_RESPONSE_PAN KEY_RESPONSE_TRACK1 KEY_RESPONSE_TRACK2 KEY_RESPONSE_TOKEN_DATA

	KEY_RESPONSE_ENTRYMODE
	KEY_RESPONSE_CVM
	KEY_RESPONSE_EXPIRYDATE
	KEY_RESPONSE_INVOICENUM
	KEY_RESPONSE_CLERKID
	KEY_RESPONSE_STORENUM
	KEY_RESPONSE_CLERKNAME
	KEY_RESPONSE_TABLENUM
	KEY_RESPONSE_TRACENUM
	KEY_RESPONSE_BATCHNUM
	KEY_RESPONSE_BASEAMT
	KEY_RESPONSE_TIPAMT
	KEY_RESPONSE_CASHBKAMT
	KEY_RESPONSE_SURCHARGEAMT
	KEY_RESPONSE_TOTALAMT
	KEY_RESPONSE_REVERSAL_AMT
	KEY_RESPONSE_AVAILABLE_AMT
	KEY_RESPONSE_APPROVED_AMT
	KEY_RESPONSE_AMT_DUE
	KEY_RESPONSE_TVR
	KEY_RESPONSE_EMV_TVR
	KEY_RESPONSE_AID
	KEY_RESPONSE_AUTHCODE
	KEY_RESPONSE_CURRENCY
	KEY_RESPONSE_CURRENCYCODENAME
	KEY_RESPONSE_CURRENCYEXPONENT
	KEY_RESPONSE_CLERKNAME

	KEY_RESPONSE_IAD
	KEY_RESPONSE_TSI
	KEY_RESPONSE_ARC
	KEY_RESPONSE_SWVER
	KEY_RESPONSE_CODE_ISO
	KEY_RESPONSE_CODE
	KEY_RESPONSE_TEXT
	KEY_RESPONSE_TEXTPLAIN
	KEY_RESPONSE_SEQUENCENUM
	KEY_RESPONSE_TC
	KEY_RESPONSE_APPPREFNAME
	KEY_RESPONSE_HOSTTIMESTAMP
	KEY_RESPONSE_TRANSREF
	KEY_RESPONSE_EMV_AC
	KEY_RESPONSE_EMV_HOSTTIMESTAMP
	KEY_RESPONSE_EMV_SETTLEDATE
	KEY_RESPONSE_EMV_NETWORKID
	KEY_RESPONSE_EMV_CURRENCYCODE
	KEY_RESPONSE_EMV_PANSEQNUM
	KEY_RESPONSE_EMV_AIP
	KEY_RESPONSE_EMV_TRANSDATE
	KEY_RESPONSE_EMV_TRANSTYPE
	KEY_RESPONSE_EMV_AMT_AUTH
	KEY_RESPONSE_EMV_OTH_AMT
	KEY_RESPONSE_APP_USAGE_CTRL
	KEY_RESPONSE_EMV_IAC_ONLINE
	KEY_RESPONSE_EMV_IAC_DEFAULT

KEY_RESPONSE_EMV_IAC_DENIAL

KEY_RESPONSE_EMV_TAC_ONLINE

KEY_RESPONSE_EMV_TAC_DEFAULT

KEY_RESPONSE_EMV_TAC_DENIAL

KEY_RESPONSE_EMV_APP_TRANSDATA

KEY_RESPONSE_EMV_CID

KEY_RESPONSE_EMV_CVM

KEY_RESPONSE_EMV_TERM_CCODE

KEY_RESPONSE_TRANSID

KEY_RESPONSE_FOOTER1

KEY_RESPONSE_FOOTER2

KEY_RESPONSE_FOOTER3

KEY_RESPONSE_FOOTER4

KEY_RESPONSE_FOOTER5

KEY_RESPONSE_FOOTER6

KEY_RESPONSE_EMV_APPLABEL

KEY_RESPONSE_EMV_APPLPAN

KEY_RESPONSE_EMV_ATC

KEY_RESPONSE_ISSUERNAME

KEY_RESPONSE_GATEWAYTRANSID

KEY_RESPONSE_BANKRESPONSECODE

KEY_RESPONSE_JSONRCPT

KEY_RESPONSE_INVOICENUM

KEY_RESPONSE_REFERENCENUM

KEY_RESPONSE_RESULTCODE

KEY_RESPONSE_APP_VERSION

KEY_RESPONSE_USER_DEFINED_ECHO_DATA

	KEY_RESPONSE_JSONRCPT
	KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

2) **Balance Inquiry**. This method calls BaseApp's Balance Inquiry transaction.

Prototype	`public void performBalanceInquiry();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print** **Card Entry Method** **Card Number (PAN)** **Expiry Date** **Card Security Code / Card Verification Value**
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_MERCH_NAME KEY_RESPONSE_MERCH_ADD1 KEY_RESPONSE_MERCH_ADD2 KEY_RESPONSE_CUST_SERV_PHONE KEY_RESPONSE_TIME KEY_RESPONSE_DATE KEY_RESPONSE_TID KEY_RESPONSE_MID KEY_RESPONSE_TRANSNAME KEY_RESPONSE_CARD_HOLDER_NAME KEY_RESPONSE_CARDLABEL KEY_RESPONSE_PAN KEY_RESPONSE_EXPIRYDATE

	KEY_RESPONSE_TRACK1
	KEY_RESPONSE_TRACK2
	KEY_RESPONSE_ENTRYMODE
	KEY_RESPONSE_CVM
	KEY_RESPONSE_INVOICENUM
	KEY_RESPONSE_CLERKID
	KEY_RESPONSE_STORENUM
	KEY_RESPONSE_TRACENUM
	KEY_RESPONSE_BATCHNUM
	KEY_RESPONSE_USER_DEFINED_ECHO_DATA
	KEY_RESPONSE_TVR
	KEY_RESPONSE_AID
	KEY_RESPONSE_AUTHCODE
	KEY_RESPONSE_SEQUENCENUM
	KEY_RESPONSE_CURRENCY
	KEY_RESPONSE_IAD
	KEY_RESPONSE_TSI
	KEY_RESPONSE_ARC
	KEY_RESPONSE_CODE
	KEY_RESPONSE_TEXT
	KEY_RESPONSE_TC
	KEY_RESPONSE_HOSTTIMESTAMP
	KEY_RESPONSE_TRANSREF
	KEY_RESPONSE_RESULTCODE
	KEY_RESPONSE_HEADER1
	KEY_RESPONSE_HEADER2
	KEY_RESPONSE_HEADER3

	KEY_RESPONSE_HEADER4
	KEY_RESPONSE_HEADER5
	KEY_RESPONSE_HEADER6
	KEY_RESPONSE_FOOTER1
	KEY_RESPONSE_FOOTER2
	KEY_RESPONSE_FOOTER3
	KEY_RESPONSE_FOOTER4
	KEY_RESPONSE_FOOTER5
	KEY_RESPONSE_FOOTER6
	KEY_RESPONSE_APP_VERSION
	KEY_RESPONSE_CODE_ISO
	KEY_RESPONSE_ISSUERNAME
	KEY_RESPONSE_GATEWAYTRANSID
	KEY_RESPONSE_BANKRESPONSECODE
	KEY_RESPONSE_AVAILABLE_AMT
	KEY_RESPONSE_JSONRCPT
	KEY_RESPONSE_DEMO_MODE
Application Type	Attended

3) **Account Verify**. This method calls BaseApp's Account Verify transaction.

Prototype	`public void performAccountVerify();`
Mandatory Fields (See **Setting the Fields** for details)	**Auto-Print** **Card Entry Method** **Card Number (PAN)** **Expiry Date** **Card Security Code / Card Verification Value**
Optional Fields	**User-Defined Echo Data**

(See **Setting the Fields** for details)	Card Additional Data
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_CODE KEY_RESPONSE_TEXT KEY_RESPONSE_RESULTCODE KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

4) **TransArmor Key Request.** This method calls the BaseApp's Transarmor Key Request function.

Prototype	`public void performKeyExchange();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	User-Defined Echo Data
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

5) **EMV CA File Download.** This method calls the BaseApp's EMV CA Public Key File Download.

Prototype	`public void performDLEMV();`
Mandatory Fields	None

(See **Setting the Fields** for details)	
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Attended, Unattended

6) **File Table Download**. A transaction submitted by the merchant/software to check the status of a file or download a file from Rapid Connect. Used in Unattended build to download card profiles.

Prototype	`public void performDLParam();`
Mandatory Fields (See **Setting the Fields** for details)	None
Optional Fields (See **Setting the Fields** for details)	**User-Defined Echo Data**
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_RESULTCODE KEY_RESPONSE_USER_DEFINED_ECHO_DATA KEY_RESPONSE_APP_VERSION KEY_RESPONSE_DEMO_MODE
Application Type	Unattended

7) Electronic Benefit Transfer (EBT) Transactions

Legend	Description
No Marking	Field is used in all RapidConnect EBT transactions
A	Field is mandatory, exclusively for the Voucher Sale/Voucher Clear transaction.
B	Field is not used in the EBT Balance Inquiry
C	Field is use for EBT Cash Benefit Type
D	Field is used for EBT eWIC Type

Prototype	`public void performEbt();`
Mandatory Fields (See **Setting the Fields** for details)	Auto-Print Card Entry Method Card Number (PAN) Expiry Date Card Security Code / Card Verification Value EBT Type EBT SubType Base Amount [B] EBT Voucher Serial Number [A] Cashback Amount[C] EBT Voucher Code [A]
Optional Fields (See **Setting the Fields** for details)	User-Defined Echo Data
Key Response (Refer to **Appendix A** for description of each key)	KEY_RESPONSE_MERCH_NAME KEY_RESPONSE_MERCH_ADD1

	KEY_RESPONSE_MERCH_ADD2
	KEY_RESPONSE_CUST_SERV_PHONE
	KEY_RESPONSE_TIME
	KEY_RESPONSE_DATE
	KEY_RESPONSE_TID
	KEY_RESPONSE_MID
	KEY_RESPONSE_TRANSNAME
	KEY_RESPONSE_CARD_HOLDER_NAME
	KEY_RESPONSE_CARDLABEL
	KEY_RESPONSE_PAN
	KEY_RESPONSE_EXPIRYDATE
	KEY_RESPONSE_TRACK1
	KEY_RESPONSE_TRACK2
	KEY_RESPONSE_ENTRYMODE
	KEY_RESPONSE_CVM
	KEY_RESPONSE_INVOICENUM
	KEY_RESPONSE_CLERKID
	KEY_RESPONSE_STORENUM
	KEY_RESPONSE_TRACENUM
	KEY_RESPONSE_BATCHNUM
	KEY_RESPONSE_USER_DEFINED_ECHO_DATA
	KEY_RESPONSE_BASEAMT
	KEY_RESPONSE_TIPAMT
	KEY_RESPONSE_CASHBKAMT
	KEY_RESPONSE_SURCHARGEAMT
	KEY_RESPONSE_TOTALAMT
	KEY_RESPONSE_TVR

	KEY_RESPONSE_AID
	KEY_RESPONSE_AUTHCODE
	KEY_RESPONSE_SEQUENCENUM
	KEY_RESPONSE_CURRENCY
	KEY_RESPONSE_IAD
	KEY_RESPONSE_TSI
	KEY_RESPONSE_ARC
	KEY_RESPONSE_CODE
	KEY_RESPONSE_TEXT
	KEY_RESPONSE_TC
	KEY_RESPONSE_HOSTTIMESTAMP
	KEY_RESPONSE_TRANSREF
	KEY_RESPONSE_RESULTCODE
	KEY_RESPONSE_TOKEN_DATA
	KEY_RESPONSE_HEADER1
	KEY_RESPONSE_HEADER2
	KEY_RESPONSE_HEADER3
	KEY_RESPONSE_HEADER4
	KEY_RESPONSE_HEADER5
	KEY_RESPONSE_HEADER6
	KEY_RESPONSE_FOOTER1
	KEY_RESPONSE_FOOTER2
	KEY_RESPONSE_FOOTER3
	KEY_RESPONSE_FOOTER4
	KEY_RESPONSE_FOOTER5
	KEY_RESPONSE_FOOTER6
	KEY_RESPONSE_TRANSID

	KEY_RESPONSE_CASHBACKFEE
	KEY_RESPONSE_NONCASHFEE
	KEY_RESPONSE_EMV_SETTLEDATE
	KEY_RESPONSE_EMV_NETWORKID
	KEY_RESPONSE_EMV_APPLABEL
	KEY_RESPONSE_EMV_APPLPAN
	KEY_RESPONSE_EMV_CURRENCYCODE
	KEY_RESPONSE_EMV_PANSEQNUM
	KEY_RESPONSE_EMV_AIP
	KEY_RESPONSE_EMV_TVR
	KEY_RESPONSE_EMV_TRANSDATE
	KEY_RESPONSE_EMV_TRANSTYPE
	KEY_RESPONSE_EMV_AMT_AUTH
	KEY_RESPONSE_EMV_OTH_AMT
	KEY_RESPONSE_APP_USAGE_CTRL
	KEY_RESPONSE_EMV_IAC_ONLINE
	KEY_RESPONSE_EMV_IAC_DEFAULT
	KEY_RESPONSE_EMV_IAC_DENIAL
	KEY_RESPONSE_APPPREFNAME
	KEY_RESPONSE_EMV_TERM_CCODE
	KEY_RESPONSE_EMV_AC
	KEY_RESPONSE_EMV_CID
	KEY_RESPONSE_EMV_IAD
	KEY_RESPONSE_EMV_CVM
	KEY_RESPONSE_EMV_ATC
	KEY_RESPONSE_EMV_UNPRED_NUM
	KEY_RESPONSE_EMV_TAC_ONLINE

	KEY_RESPONSE_EMV_TAC_DEFAULT
	KEY_RESPONSE_EMV_TAC_DENIAL
	KEY_RESPONSE_REVERSAL_AMT
	KEY_RESPONSE_APP_VERSION
	KEY_RESPONSE_EMV_APP_TRANSDATA
	KEY_RESPONSE_CODE_ISO
	KEY_RESPONSE_SWVER
	KEY_RESPONSE_ISSUERNAME
	KEY_RESPONSE_GATEWAYTRANSID
	KEY_RESPONSE_BANKRESPONSECODE
	KEY_RESPONSE_AVAILABLE_AMT
	KEY_RESPONSE_JSONRCPT
	KEY_RESPONSE_DEMO_MODE
Application Type	Attended

4.6 GETTING RESPONSE VALUES

To receive the result status from BaseApp, override the method from the calling activity "onActivityResult", as demonstrated below.

Prototype	```public void startActivityForResult(
Intent intent,
int requestCode);```
Description	Launch an Android activity which returns a result when activity finishes. When activity exits, the onActivityResult() method is called with the given requestCode.
Example:	Based on the sample from the previous section, it can be called using: ```mActivity.startActivityForResult(intent, REQUEST_CODE_PURCHASE);```
Notes	All parameters are mandatory.

```
@Override
protected void onActivityResult(int requestCode, int resultCode,
Intent data) {
      switch(requestCode) {
          case TransactionController.REQUEST_CODE_PURCHASE:
          case TransactionController.REQUEST_CODE_REFUND:
          case TransactionController.REQUEST_CODE_VOID:
              if (resultCode == RESULT_OK) {
                  Bundle bundle = data.getExtras();
                  if (bundle != null && !bundle.isEmpty()) {
                      ResponseValue.responseMerchantName =
bundle.getString(TransactionController.KEY_RESPONSE_MERCH_NAME);
                          // extract the rest of the details from the
                      $bundle object
                  }
              }
              if(!mAutoPrint) {
                  // do own printing here
              }
              break;
      }
}
```

When transaction is successful, obtain the bundle instance from the "data" object. The object contains the completed transaction details. For example, to get the merchant name returned by BaseApp, refer to the below code:

```
String merchantName = bundle.getString(KEY_RESPONSE_MERCH_NAME);
```

Refer to **Common Transactions** and **Host-Specific Transactions** for the "keys" that can be used to extract the transaction details from the "bundle" object.

Note that "KEY_RESPONSE_RESULTCODE" is used to return the status of the operation to the non-payment application. Refer to **Appendix C** for the possible result code values returned by the application.

4.6.1   HANDLING OF SENSITIVE DATA

Displayed or printed cardholder data is always in masked format in BaseApp. However, unmasked cardholder data can be shared with the non-payment application in all intent functions that return cardholder data.

4.7 PRINTING RESPONSE VALUES

To print the details of a transaction completed by BaseApp, **Auto-Print** must be set to true. Refer to **Setting the Fields** for more details.

If the value is set to false, no printing will be performed in BaseApp. This means printing is handled by non-payment application, if it is needed.

For the non-payment application to handle printing, the Android project must be configured properly as described in "AMP POS 6 and 8 Series Developer Guide" document, "Section 3 - Adding the AMP POS 6 and 8 Series libraries to the Project". Without the mentioned libraries, the device printing functions will not be available.

Please refer to the AMP Android API documentation, provided in the AMP 8 Series SDK package, for the complete list of available printer API. Printing of response values is exclusive to attended BaseApp.

4.8 DIGITAL RECEIPT PRINTING - PDF RECEIPT

Traditionally, receipts are printed on paper for both merchants and customers. When printing a paper receipt is not an option, a non-payment application can utilize the PDF receipt file generation feature and choose to either send the file to the customer's email address or show

the receipt on-screen. To help non-payment applications build this functionality, sample code is provided in **Appendix A**. This feature is exclusive to unattended BaseApp.

4.9 DIGITAL RECEIPT PRINTING - JSON FORMAT

Optionally, BaseApp offers a way for integrators to reproduce identical receipts in the back office by providing JSON receipt data which contains appropriate formatting. JSON format for transaction receipts and reports is currently supported in RapidConnect Attended and Unattended. In Global Payment Attended and Unattended, JSON format is only supported for transaction receipts.

JSON output is always returned regardless of **Auto-Print** setting.

The returned JSON format contains the "layout" and "lines" details that are needed to generate a receipt.

4.9.1 LAYOUT

For "layout", the mandatory fields that need to be returned are the following:

- "format" sets the type of receipt format to be generated.
  - o "condensed" – The format that prints receipts in an economical manner by saving space and paper.
  - o "normal" – The format that prints receipts in a standard and easier to read format.
- "fontmaxchars" sets the font and maximum printed characters in a receipt.
  - o "regular" – Sets font to a regular size; a maximum of 34 characters can be printed per line.
  - o "emphasis" – Sets font to bold and larger than standard size; a maximum of 24 characters can be printed per line.
  - o "detail" – Sets font to smaller than standard size; a maximum of 42 characters can be printed per line.

4.9.2 LINES

For "lines", this will contain the type, alignment, and image/text values for each receipt detail per line.

- "type" – Value that identifies the type of detail printed per line.
  - o "image" – Content of line is receipt logo.
  - o "line" – Content of line is text details.
  - o "nextline" – Content of line will be printed in the next line.
- "font" – Value for the type of font used per line.
  - o "regular" – Content of line is in regular font.
  - o "bold" – Content of line is in bold font.

Note: This is an optional field.

- "align" – Value for the text alignment used per line.
    - "c" – Content of line is printed in center.
    - "l" – Content of line is printed left justified.
    - "r" – Content of line is printed right justified.
    - "lr" – Content of line will contain 2 text input and is printed left and right justified.
- "image" – Filename that is used for receipt logo.
- "text" – Printed text value in the receipt.
- "inverse" – Sets printed text to inversed format.
    - true – Printed text is in white font with black background.
    - false – Printed text is in black font and no background.
  Note: This is an optional field.
- "size" – Value for the font size used per line.
    - "default" – Content of line is printed in normal font size.
    - "emphasis" – Content of line is printed in larger than normal font size.
    - "detail" – Content of line is printed in smaller than normal font size.
  Note: This is an optional field.

Here is a sample of a JSON receipt output:

```json
{
    "layout": {
        "format": "condensed",
        "fontmaxchars": [
            {
                "regular": 34
            },
            {
                "emphasis": 24
            },
            {
                "detail": 42
            }
        ]
    },
    "lines": [
        {
            "1": [
                {
                    "type": "image",
                    "align": "c",
                    "image": "AMPLogoPrn.png"
                }
            ]
        },
        {
            "2": [
```

```json
            {
                "type": "line",
                "align": "c",
                "txt": "HEADER_01"
            }
        ]
    },
    {
        "3": [
            {
                "type": "line",
                "align": "c",
                "txt": "HEADER_02"
            }
        ]
    },
    {
        "4": [
            {
                "type": "line",
                "align": "c",
                "txt": "HEADER_03"
            }
        ]
    },
    {
        "5": [
            {
                "type": "line",
                "align": "c",
                "txt": "HEADER_04"
            }
        ]
    },
    {
        "6": [
            {
                "type": "line",
                "align": "c",
                "txt": "HEADER_05"
            }
        ]
    },
    {
        "7": [
            {
                "type": "line",
                "align": "c",
                "txt": "HEADER_06"
```

```
                    }
                ]
            },
            {
                "8": [
                    {
                        "type": "line",
                        "align": "c",
                        "txt": "                                        "
                    }
                ]
            },
            {
                "9": [
                    {
                        "type": "line",
                        "align": "lr",
                        "txt1": "MID",
                        "txt2": "***********5177"
                    }
                ]
            },
            {
                "10": [
                    {
                        "type": "line",
                        "align": "lr",
                        "txt1": "TID",
                        "txt2": "003"
                    }
                ]
            },
            {
                "11": [
                    {
                        "type": "line",
                        "align": "c",
                        "txt": "                                        "
                    }
                ]
            },
            {
                "12": [
                    {
                        "type": "line",
                        "align": "c",
                        "txt": "..............................."
                    }
                ]
```

```
            }
        ]
    }
```

5   RECEIPT SAMPLES

5.1   PAYFACTO

5.1.1   ONLINE APPROVED – CREDIT CARD (SIGNATURE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand/Account Type> <*************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
CVM: <CVM value>	KEY_RESPONSE_CVM
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Sequence #: <NNNNNNN>	KEY_RESPONSE_SEQUENCENUM
Batch #: <NNNN>	KEY_RESPONSE_BATCHNUM
Amount CAD$ <Amount>	KEY_RESPONSE_BASEAMT
Surcharge: <Amount>	KEY_RESPONSE_SURCHARGEAMT (Printed if Surcharge is enabled.)
Tip: <Amount>	KEY_RESPONSE_TIPAMT (Printed if Tip is enabled.)
Total: <Amount>	KEY_RESPONSE_TOTALAMT
00 TRANSACTION APPROVED 000	KEY_RESPONSE_CODE_ISO ; KEY_RESPONSE_TEXT; KEY_RESPONSE_CODE
THANK YOU	
Auth Code: <AAANNN>	KEY_RESPONSE_AUTHCODE
Host Timestamp: MM//DD/YY HH:MM:SS	KEY_RESPONSE_HOSTTIMESTAMP
Transaction Ref: <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
VER: AMP_AMP_8SER_V100C	KEY_RESPONSE_SWVER
I, THE CARDHOLDER, AGREE TO	
PAY THE ABOVE TOTAL AMOUNT	
ACCORDING TO THE CARDHOLDER	
AGREEMENT	
X_____	
<Cardholder name>	KEY_RESPONSE_CARD_HOLDER_NAME
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6
MERCHANT COPY	

5.1.2 ONLINE APPROVED – CREDIT CARD (PIN VERIFIED, NONE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand/Account Type> <************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
CVM: <CVM value>	KEY_RESPONSE_CVM
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Sequence #: <NNNNNNN>	KEY_RESPONSE_SEQUENCENUM
Batch #: <NNNN>	KEY_RESPONSE_BATCHNUM
Amount CAD$ <Amount>	KEY_RESPONSE_CURRENCY; KEY_RESPONSE_BASEAMT
Surcharge: <Amount>	KEY_RESPONSE_SURCHARGEAMT (Printed if Surcharge is enabled.)
Tip: <Amount>	KEY_RESPONSE_TIPAMT (Printed if Tip is enabled.)
Total: <Amount>	KEY_RESPONSE_TOTALAMT
00 TRANSACTION APPROVED 000	KEY_RESPONSE_CODE_ISO ; KEY_RESPONSE_TEXT; KEY_RESPONSE_CODE
THANK YOU	
Auth Code: <AAANNN>	KEY_RESPONSE_AUTHCODE
Host Timestamp: MM//DD/YY HH:MM:SS	KEY_RESPONSE_HOSTTIMESTAMP
Transaction Ref: <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
<Application Label>	KEY_RESPONSE_APPPREFNAME
AID: 00000000000000	KEY_RESPONSE_AID
TC: ABCDEFGH12345678	KEY_RESPONSE_TC
TVR: 0000000000	KEY_RESPONSE_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
VER: AMP_AMP_8SER_V100C	KEY_RESPONSE_SWVER
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6
MERCHANT COPY	

5.1.3   ONLINE APPROVED – DEBIT CARD (PIN VERIFIED)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand/Account Type> <*************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
CVM: <CVM value>	KEY_RESPONSE_CVM
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Sequence #: <NNNNNNN>	KEY_RESPONSE_SEQUENCENUM
Batch #: <NNNN>	KEY_RESPONSE_BATCHNUM
Amount **CAD$** **<Amount>**	KEY_RESPONSE_CURRENCY; KEY_RESPONSE_BASEAMT
Cashback: <Amount>	KEY_RESPONSE_CASHBKAMT (Printed if Cashback is enabled.)
Surcharge: <Amount>	KEY_RESPONSE_SURCHARGEAMT (Printed if Surcharge is enabled.)
Tip: <Amount>	KEY_RESPONSE_TIPAMT (Printed if Tip is enabled.)
Total: **<Amount>**	KEY_RESPONSE_TOTALAMT
00 TRANSACTION APPROVED 000	KEY_RESPONSE_CODE_ISO ; KEY_RESPONSE_TEXT; KEY_RESPONSE_CODE
THANK YOU	
Auth Code: <AAANNN>	KEY_RESPONSE_AUTHCODE
Host Timestamp: MM//DD/YY HH:MM:SS	KEY_RESPONSE_HOSTTIMESTAMP
<Application Label>	KEY_RESPONSE_APPPREFNAME
AID: 00000000000000	KEY_RESPONSE_AID
TC: ABCDEFGH12345678	KEY_RESPONSE_TC
TVR: 0000000000	KEY_RESPONSE_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
VER: AMP_AMP_8SER_V100C	KEY_RESPONSE_SWVER
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6
MERCHANT COPY	

5.1.4   VOID – CREDIT CARD (PIN VERIFIED, NONE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<Transaction name> Correction	KEY_RESPONSE_TRANSNAME
<Card brand/Account Type> <*************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
CVM: <CVM value>	KEY_RESPONSE_CVM
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Sequence #: <NNNNNNN>	KEY_RESPONSE_SEQUENCENUM
Batch #: <NNNN>	KEY_RESPONSE_BATCHNUM
Amount CAD$ **<Amount>**	KEY_RESPONSE_CURRENCY; KEY_RESPONSE_BASEAMT
Surcharge: <Amount>	KEY_RESPONSE_SURCHARGEAMT (Printed if Surcharge is enabled.)
Tip: <Amount>	KEY_RESPONSE_TIPAMT (Printed if Tip is enabled.)
Total: **<Amount>**	KEY_RESPONSE_TOTALAMT
00 TRANSACTION APPROVED 000	KEY_RESPONSE_CODE_ISO ; KEY_RESPONSE_TEXT; KEY_RESPONSE_CODE
THANK YOU	
Auth Code: <AAANNN>	KEY_RESPONSE_AUTHCODE
Host Timestamp: MM//DD/YY HH:MM:SS	KEY_RESPONSE_HOSTTIMESTAMP
Transaction Ref: <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
<Application Label>	KEY_RESPONSE_APPPREFNAME
AID: 00000000000000	KEY_RESPONSE_AID
TC: ABCDEFGH12345678	KEY_RESPONSE_TC
TVR: 0000000000	KEY_RESPONSE_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
VER: AMP_AMP_8SER_V100C	KEY_RESPONSE_SWVER
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6
MERCHANT COPY	

5.1.5   VOID – DEBIT CARD (PIN VERIFIED)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<Transaction name> Correction	KEY_RESPONSE_TRANSNAME
<Card brand/Account Type> <************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
CVM: <CVM value>	KEY_RESPONSE_CVM
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Sequence #: <NNNNNNN>	KEY_RESPONSE_SEQUENCENUM
Batch #: <NNNN>	KEY_RESPONSE_BATCHNUM
Amount **CAD$** **<Amount>**	KEY_RESPONSE_CURRENCY; KEY_RESPONSE_BASEAMT
Cashback: <Amount>	KEY_RESPONSE_CASHBKAMT (Printed if Cashback is enabled.)
Surcharge: <Amount>	KEY_RESPONSE_SURCHARGEAMT (Printed if Surcharge is enabled.)
Tip: <Amount>	KEY_RESPONSE_TIPAMT (Printed if Tip is enabled.)
Total: **<Amount>**	KEY_RESPONSE_TOTALAMT
00 TRANSACTION APPROVED 000	KEY_RESPONSE_CODE_ISO ; KEY_RESPONSE_TEXT; KEY_RESPONSE_CODE
THANK YOU	
Auth Code: <AAANNN>	KEY_RESPONSE_AUTHCODE
Host Timestamp: MM//DD/YY HH:MM:SS	KEY_RESPONSE_HOSTTIMESTAMP
<Application Label>	KEY_RESPONSE_APPPREFNAME
AID: 00000000000000	KEY_RESPONSE_AID
TC: ABCDEFGH12345678	KEY_RESPONSE_TC
TVR: 0000000000	KEY_RESPONSE_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
VER: AMP_AMP_8SER_V100C	KEY_RESPONSE_SWVER
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6
MERCHANT COPY	

5.1.6   DECLINED – CREDIT CARD

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand/Account Type> <************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
CVM: <CVM value>	KEY_RESPONSE_CVM
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Sequence #: <NNNNNNN>	KEY_RESPONSE_SEQUENCENUM
Batch #: <NNNN>	KEY_RESPONSE_BATCHNUM
Amount CAD$ **<Amount>**	KEY_RESPONSE_CURRENCY; KEY_RESPONSE_BASEAMT
Surcharge: <Amount>	KEY_RESPONSE_SURCHARGEAMT (Printed if Surcharge is enabled.)
Tip: <Amount>	KEY_RESPONSE_TIPAMT (Printed if Tip is enabled.)
Total: **<Amount>**	KEY_RESPONSE_TOTALAMT
63 Transaction Not Completed 663	KEY_RESPONSE_CODE_ISO ; KEY_RESPONSE_TEXT; KEY_RESPONSE_CODE
Host Timestamp: MM//DD/YY HH:MM:SS	KEY_RESPONSE_HOSTTIMESTAMP
<Application Label>	KEY_RESPONSE_APPPREFNAME
AID: 00000000000000	KEY_RESPONSE_AID
TC: ABCDEFGH12345678	KEY_RESPONSE_TC
TVR: 0000000000	KEY_RESPONSE_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
VER: AMP_AMP_8SER_V100C	KEY_RESPONSE_SWVER
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6
MERCHANT COPY	

5.1.7   DECLINED – DEBIT CARD

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand/Account Type> <************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
CVM: <CVM value>	KEY_RESPONSE_CVM
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Sequence #: <NNNNNNN>	KEY_RESPONSE_SEQUENCENUM
Batch #: <NNNN>	KEY_RESPONSE_BATCHNUM
Amount **CAD$** **<Amount>**	KEY_RESPONSE_CURRENCY; KEY_RESPONSE_BASEAMT
Cashback: <Amount>	KEY_RESPONSE_CASHBKAMT (Printed if Cashback is enabled.)
Surcharge: <Amount>	KEY_RESPONSE_SURCHARGEAMT (Printed if Surcharge is enabled.)
Tip: <Amount>	KEY_RESPONSE_TIPAMT (Printed if Tip is enabled.)
Total: **<Amount>**	KEY_RESPONSE_TOTALAMT
■■■ 63 Transaction Not Completed 663 ■■■	KEY_RESPONSE_CODE_ISO ; KEY_RESPONSE_TEXT; KEY_RESPONSE_CODE
Host Timestamp: MM//DD/YY HH:MM:SS	KEY_RESPONSE_HOSTTIMESTAMP
<Application Label>	KEY_RESPONSE_APPPREFNAME
AID: 00000000000000	KEY_RESPONSE_AID
TC: ABCDEFGH12345678	KEY_RESPONSE_TC
TVR: 0000000000	KEY_RESPONSE_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
VER: AMP_AMP_8SER_V100C	KEY_RESPONSE_SWVER
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6
MERCHANT COPY	

5.1.8   REVERSAL – CREDIT AND DEBIT

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand/Account Type> <*************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
CVM: <CVM value>	KEY_RESPONSE_CVM
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Sequence #: <NNNNNNN>	KEY_RESPONSE_SEQUENCENUM
Batch #: <NNNN>	KEY_RESPONSE_BATCHNUM
Amount CAD$ **<Amount>**	KEY_RESPONSE_CURRENCY; KEY_RESPONSE_BASEAMT
Reversed Amount: <Amount>	KEY_RESPONSE_REVERSAL_AMT
Total: **<0.00>**	KEY_RESPONSE_TOTALAMT
00 Transaction Not Completed 501	KEY_RESPONSE_CODE_ISO ; KEY_RESPONSE_TEXT; KEY_RESPONSE_CODE
Auth Code: <AAANNN>	KEY_RESPONSE_AUTHCODE
Host Timestamp: MM//DD/YY HH:MM:SS	KEY_RESPONSE_HOSTTIMESTAMP
<Application Label>	KEY_RESPONSE_APPPREFNAME
AID: 00000000000000	KEY_RESPONSE_AID
TC: ABCDEFGH12345678	KEY_RESPONSE_TC
TVR: 0000000000	KEY_RESPONSE_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
VER: AMP_AMP_8SER_V100C	KEY_RESPONSE_SWVER
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6
MERCHANT COPY	

5.2 TSYS

5.2.1   ONLINE PARTIAL APPROVED – CREDIT CARD (SIGNATURE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand > <************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
CVM: <CVM value>	KEY_RESPONSE_CVM
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Store #: <NNNN>	KEY_RESPONSE_STORENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Batch #: <NNN>	KEY_RESPONSE_BATCHNUM
Transaction ID: <NNNNNNNNNNNNNNNN>	KEY_RESPONSE_TRANSID
Total: **USD$** **<Amount>**	KEY_RESPONSE_BASEAMT
Approved Amt: **<Amount>**	KEY_RESPONSE_TOTALAMT
Amount Due: **<Amount>**	(Key response not yet available.)
PARTIAL APPROVED	
Response: PARTIAL APPROVAL	KEY_RESPONSE_TEXT
Response Code: 10	KEY_RESPONSE_CODE
Auth Code: AAANNN	KEY_RESPONSE_AUTHCODE
Transaction Ref (RRN): <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
The Issuer of the Card identified on this item is authorized to pay the amount shown as 'total' upon proper presentation I promise to pay such total (together with any other charges due to thereon) subject to and in accordance with the agreement governing the use of such Card.	
X_____	
<Cardholder name>	KEY_RESPONSE_CARD_HOLDER_NAME
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.2.2 ONLINE PARTIAL APPROVED – CREDIT CARD (PIN VERIFIED, NONE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand > <*************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
CVM: <CVM value>	KEY_RESPONSE_CVM
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Store #: <NNNN>	KEY_RESPONSE_STORENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Batch #: <NNN>	KEY_RESPONSE_BATCHNUM
Transaction ID: <NNNNNNNNNNNNNNN>	KEY_RESPONSE_TRANSID
Total: USD$ <Amount>	KEY_RESPONSE_BASEAMT
Approved Amt: <Amount>	KEY_RESPONSE_TOTALAMT
Amount Due: <Amount>	(Key response not yet available.)
PARTIAL APPROVED	
Response: PARTIAL APPROVAL AAANNN	KEY_RESPONSE_TEXT
Response Code: 00	KEY_RESPONSE_CODE
Auth Code: AAANNN	KEY_RESPONSE_AUTHCODE
Transaction Ref (RRN): <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ARC:	KEY_RESPONSE_ARC
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.2.3 ONLINE APPROVED – CREDIT CARD (SIGNATURE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand > <************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
CVM: <CVM value>	KEY_RESPONSE_CVM
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Store #: <NNNN>	KEY_RESPONSE_STORENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Batch #: <NNN>	KEY_RESPONSE_BATCHNUM
Transaction ID: <NNNNNNNNNNNNNNN>	KEY_RESPONSE_TRANSID
Amount USD$ <Amount>	KEY_RESPONSE_BASEAMT
APPROVED	
Response: APPROVAL AAANNN	KEY_RESPONSE_TEXT
Response Code: 00	KEY_RESPONSE_CODE
Auth Code: AAANNN	KEY_RESPONSE_AUTHCODE
Transaction Ref (RRN): <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
The Issuer of the Card identified on this item is authorized to pay the amount shown as 'total' upon proper presentation I promise to pay such total (together with any other charges due to thereon) subject to and in accordance with the agreement governing the use of such Card.	
X_____	
<Cardholder name>	KEY_RESPONSE_CARD_HOLDER_NAME
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.2.4   ONLINE APPROVED – CREDIT CARD (PIN VERIFIED, NONE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand > <*************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
CVM: <CVM value>	KEY_RESPONSE_CVM
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Store #: <NNNN>	KEY_RESPONSE_STORENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Batch #: <NNN>	KEY_RESPONSE_BATCHNUM
Transaction ID: <NNNNNNNNNNNNNNN>	KEY_RESPONSE_TRANSID
Amount USD$ <Amount>	KEY_RESPONSE_BASEAMT
APPROVED	
Response: APPROVAL AAANNN	KEY_RESPONSE_TEXT
Response Code: 00	KEY_RESPONSE_CODE
Auth Code: AAANNN	KEY_RESPONSE_AUTHCODE
Transaction Ref (RRN): <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ARC:	KEY_RESPONSE_ARC
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.2.5 ONLINE APPROVED – DEBIT CARD (PIN VERIFIED)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand > <NNNNNNNNNNNNNNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
CVM: <CVM value>	KEY_RESPONSE_CVM
Expiry Date: <MMYY>	
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Store #: <NNNN>	KEY_RESPONSE_STORENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Batch #: <NNN>	KEY_RESPONSE_BATCHNUM
Transaction ID: <NNNNNNNNNNNNNNNN>	KEY_RESPONSE_TRANSID
Amount USD$ <Amount>	KEY_RESPONSE_BASEAMT
APPROVED	
Response: APPROVAL AAANNN	KEY_RESPONSE_TEXT
Response Code: 00	KEY_RESPONSE_CODE
Auth Code: AAANNN	KEY_RESPONSE_AUTHCODE
Transaction Ref (RRN): <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
Network ID: A	KEY_RESPONSE_EMV_NETWORKID
Settle Date: <MMDD>	KEY_RESPONSE_EMV_SETTLEDATE
Trans Time: HH:MM:SS	
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ARC:	KEY_RESPONSE_ARC
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.2.6   FULL AND PARTIAL VOID – CREDIT AND DEBIT

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
Void <Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand > <************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
CVM: <CVM value>	KEY_RESPONSE_CVM
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Store #: <NNNN>	KEY_RESPONSE_STORENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Batch #: <NNN>	KEY_RESPONSE_BATCHNUM
Transaction ID: <NNNNNNNNNNNNNNN>	KEY_RESPONSE_TRANSID
Amount USD$ <Amount>	KEY_RESPONSE_BASEAMT
Reversed Amount: <Amount>	KEY_RESPONSE_REVERSAL_AMT
Total: <Amount>	KEY_RESPONSE_TOTALAMT
APPROVED	
Response: APPROVAL AAANNN	KEY_RESPONSE_TEXT
Response Code: 00	KEY_RESPONSE_CODE
Auth Code: AAANNN	KEY_RESPONSE_AUTHCODE
Transaction Ref (RRN): <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.2.7   DECLINED – CREDIT AND DEBIT CARD

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY>　　　　　　<HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand >　　　　　<************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode:　　　　　<Card entry mode>	KEY_RESPONSE_ENTRYMODE
Invoice #:　　　　　　<NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server:　　　　　<NNNN>	KEY_RESPONSE_CLERKID
Store #:　　　　　　<NNNN>	KEY_RESPONSE_STORENUM
Trace #:　　　　　　<NNNNNN>	KEY_RESPONSE_TRACENUM
Batch #:　　　　　　<NNN>	KEY_RESPONSE_BATCHNUM
Amount:　　　USD$　　　<Amount>	KEY_RESPONSE_BASEAMT
DECLINED	
Response:　　　　　FAILURE HV	KEY_RESPONSE_TEXT
Response Code:　　　　HV	KEY_RESPONSE_CODE
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ARC:	KEY_RESPONSE_ARC
EMV Offline Data	
Tag 50: VISA CREDIT	KEY_RESPONSE_EMV_APPLABEL
Tag 5A: ************NNNN	KEY_RESPONSE_EMV_APPLPAN
Tag 5F2A: 0000	KEY_RESPONSE_EMV_CURRENCYCODE
Tag 5F34: 00	KEY_RESPONSE_EMV_PANSEQNUM
Tag 82: 0000	KEY_RESPONSE_EMV_AIP
Tag 95: 0000000000	KEY_RESPONSE_EMV_TVR
Tag 9A: 000000	KEY_RESPONSE_EMV_TRANSDATE
Tag 9C: 00	KEY_RESPONSE_EMV_TRANSTYPE
Tag 9F02: 000000000000	KEY_RESPONSE_EMV_AMT_AUTH
Tag 9F03: 000000000000	KEY_RESPONSE_EMV_OTH_AMT
Tag 9F07: 0000	KEY_RESPONSE_APP_USAGE_CTRL
Tag 9F0D: 0000000000	KEY_RESPONSE_EMV_IAC_ONLINE
Tag 9F0E: 000000000	KEY_RESPONSE_EMV_IAC_DEFAULT
Tag 9F0F: 0000000000	KEY_RESPONSE_EMV_IAC_DENIAL
Tag 9F10: 00000000000000	KEY_RESPONSE_EMV_IAD
Tag 9F12: Visa Credit	KEY_RESPONSE_APPPREFNAME
Tag 9F1A: 0000	KEY_RESPONSE_EMV_TERM_CCODE
Tag 9F26: 0000000000000000	KEY_RESPONSE_EMV_AC
Tag 9F27: 00	KEY_RESPONSE_EMV_CID
Tag 9F34: 000000	KEY_RESPONSE_EMV_CVM
Tag 9F36: 0000	KEY_RESPONSE_EMV_ATC
Tag 9F37: 00000000	KEY_RESPONSE_EMV_UNPRED_NUM
TAC Default:	KEY_RESPONSE_EMV_TAC_DEFAULT
TAC Denial:	KEY_RESPONSE_EMV_TAC_DENIAL
TAC Online:	KEY_RESPONSE_EMV_TAC_ONLINE

MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.2.8   AUTO REVERSAL – CREDIT CARD

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
Reversal - <Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand > <************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
CVM: <CVM value>	KEY_RESPONSE_CVM
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Store #: <NNNN>	KEY_RESPONSE_STORENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Batch #: <NNN>	KEY_RESPONSE_BATCHNUM
Transaction ID: <NNNNNNNNNNNNNNN>	KEY_RESPONSE_TRANSID
Amount **USD$** **<Amount>**	KEY_RESPONSE_BASEAMT
Reversed Amount: <Amount>	KEY_RESPONSE_REVERSAL_AMT
Total: **<Amount>**	KEY_RESPONSE_TOTALAMT
APPROVED	
Response: APPROVAL AAANNN	KEY_RESPONSE_TEXT
Response Code: 00	KEY_RESPONSE_CODE
Auth Code: AAANNN	KEY_RESPONSE_AUTHCODE
Transaction Ref (RRN): <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.2.9   AUTO REVERSAL – DEBIT CARD

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
Reversal - <Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand > <*************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
CVM: <CVM value>	KEY_RESPONSE_CVM
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Store #: <NNNN>	KEY_RESPONSE_STORENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Batch #: <NNN>	KEY_RESPONSE_BATCHNUM
Transaction ID: <NNNNNNNNNNNNNNN>	KEY_RESPONSE_TRANSID
Amount **USD$** **<Amount>**	KEY_RESPONSE_BASEAMT
Reversed Amount: <Amount>	KEY_RESPONSE_REVERSAL_AMT
Total: **<Amount>**	KEY_RESPONSE_TOTALAMT
APPROVED	
Response: APPROVAL AAANNN	KEY_RESPONSE_TEXT
Response Code: 00	KEY_RESPONSE_CODE
Auth Code: AAANNN	KEY_RESPONSE_AUTHCODE
Transaction Ref (RRN): <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
Settle Date: <MMDD>	KEY_RESPONSE_EMV_SETTLEDATE
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.3 GLOBAL PAYMENTS

5.3.1   ONLINE APPROVED – CREDIT CARD (SIGNATURE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
CREDIT CARD	KEY_RESPONSE_CARDLABEL
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Issuer Name >	KEY_RESPONSE_ISSUERNAME
<Card entry mode>	KEY_RESPONSE_ENTRYMODE
<*************NNNN>	KEY_RESPONSE_PAN
Invoice #: <NNNNNN>	KEY_RESPONSE_INVOICENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Description: <NNNNNNNNNNNNN>	KEY_RESPONSE_DESCRIPTION
Amount $ <Amount>	KEY_RESPONSE_BASEAMT
Tip: $ <Amount>	KEY_RESPONSE_TIPAMT
TOTAL CAD $ <Amount>	KEY_RESPONSE_TOTALAMT
APPROVED 123456	KEY_RESPONSE_TEXT; KEY_RESPONSE_AUTHCODE
Response Code: 00	KEY_RESPONSE_CODE
Gateway Trxn ID: <NNNNNNNNNN>	KEY_RESPONSE_GATEWAYTRANSID
Transaction ID: <AAAAAAANNNNNNNN>	KEY_RESPONSE_EMV_NETWORKID
I AGREE TO PAY ABOVE TOTAL AMOUNT	
ACCORDING TO CARD ISSUER AGREEMENT	
(MERCHANT AGREEMENT IF CREDIT VOUCHER)	
X_____	
<Cardholder name>	KEY_RESPONSE_CARD_HOLDER_NAME
No Refunds	
Store Credit Only	
Thank You	
Please Come Again	
MM/DD/YYY HH:MM	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.3.2 ONLINE APPROVED – CREDIT CARD (PIN VERIFIED, NONE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
CREDIT CARD	KEY_RESPONSE_CARDLABEL
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Issuer Name >	KEY_RESPONSE_ISSUERNAME
<Card entry mode> <Card entry mode>	KEY_RESPONSE_ENTRYMODE
<*************NNNN>	KEY_RESPONSE_PAN
Invoice #: <NNNNNN>	KEY_RESPONSE_INVOICENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Description: <NNNNNNNNNNNNN>	KEY_RESPONSE_DESCRIPTION
Amount $ <Amount>	KEY_RESPONSE_BASEAMT
Tip: $ <Amount>	KEY_RESPONSE_TIPAMT
TOTAL CAD $ <Amount>	KEY_RESPONSE_TOTALAMT
APPROVED 123456	KEY_RESPONSE_TEXT; KEY_RESPONSE_AUTHCODE
Response Code: 00	KEY_RESPONSE_CODE
Gateway Trxn ID: <NNNNNNNNNN>	KEY_RESPONSE_GATEWAYTRANSID
Transaction ID: <AAAAAAANNNNNNNN>	KEY_RESPONSE_EMV_NETWORKID
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
AID NAME: AAAAAAAAAAAA	KEY_RESPONSE_EMV_APPLABEL
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ATC: AANN	KEY_RESPONSE_EMV_ATC
AC: AAAAAAAANNNNNNNN	KEY_RESPONSE_EMV_AC
PIN VERIFIED	KEY_RESPONSE_CVM (returned only if transaction is PIN Verified)
No Refunds	
Store Credit Only	
Thank You	
Please Come Again	
MM/DD/YYY HH:MM	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.3.3   ONLINE APPROVED – US DEBIT CARD (PIN VERIFIED)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
DEBIT CARD	KEY_RESPONSE_CARDLABEL
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Issuer Name >	KEY_RESPONSE_ISSUERNAME
<Card entry mode> <Card entry mode>	KEY_RESPONSE_ENTRYMODE
<*************NNNN>	KEY_RESPONSE_PAN
Invoice #: <NNNNNN>	KEY_RESPONSE_INVOICENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Description: <NNNNNNNNNNNNN>	KEY_RESPONSE_DESCRIPTION
Amount $ **<Amount>**	KEY_RESPONSE_BASEAMT
Tip: $ <Amount>	KEY_RESPONSE_TIPAMT
TOTAL **US $ <Amount>**	KEY_RESPONSE_TOTALAMT
APPROVED 123456	KEY_RESPONSE_TEXT; KEY_RESPONSE_AUTHCODE
Gateway Trxn ID: <NNNNNNNNNN>	KEY_RESPONSE_GATEWAYTRANSID
Transaction ID: <AAAAAAANNNNNNNN>	KEY_RESPONSE_EMV_NETWORKID
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
AID NAME: AAAAAAAAAAAA	KEY_RESPONSE_EMV_APPLABEL
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ATC: AANN	KEY_RESPONSE_EMV_ATC
AC: AAAAAAAANNNNNNNN	KEY_RESPONSE_EMV_AC
PIN VERIFIED	KEY_RESPONSE_CVM (returned only if transaction is PIN Verified)
No Refunds	
Store Credit Only	
Thank You	
Please Come Again	
MM/DD/YYY HH:MM	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.3.4   ONLINE APPROVED –INTERAC CARD (PIN VERIFIED)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
DEBIT CARD	KEY_RESPONSE_CARDLABEL
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Issuer Name / Account Type >	KEY_RESPONSE_ISSUERNAME
	KEY_RESPONSE_ACCOUNTTYPE
<Card entry mode> <Card entry mode>	KEY_RESPONSE_ENTRYMODE
<*************NNNN>	KEY_RESPONSE_PAN
Invoice #: <NNNNNN>	KEY_RESPONSE_INVOICENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Amount $ **<Amount>**	KEY_RESPONSE_BASEAMT
Cashback: $ <Amount>	KEY_RESPONSE_CASHBKAMT
Tip: $ <Amount>	KEY_RESPONSE_TIPAMT
TOTAL **CAD $ <Amount>**	KEY_RESPONSE_TOTALAMT
APPROVED 123456	KEY_RESPONSE_TEXT; KEY_RESPONSE_AUTHCODE
Response Code: 00 / 00	KEY_RESPONSE_CODE; KEY_RESPONSE_CODE_ISO
Bank Response Code: 001	KEY_RESPONSE_BANKRESPONSECODE
Sequence #: <NNNNNNNNNN>	KEY_RESPONSE_SEQUENCENUM
Gateway Trxn ID: <NNNNNNNNNN>	KEY_RESPONSE_GATEWAYTRANSID
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
AID NAME: AAAAAAAAAAAA	KEY_RESPONSE_EMV_APPLABEL
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ATC: AANN	KEY_RESPONSE_EMV_ATC
AC: AAAAAAAANNNNNNNN	KEY_RESPONSE_EMV_AC
PIN VERIFIED	KEY_RESPONSE_CVM
No Refunds	
Store Credit Only	
Thank You	
Please Come Again	
MM/DD/YYYY HH:MM	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.3.5 PARTIAL APPROVED – CREDIT CARD (SIGNATURE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
CREDIT CARD	KEY_RESPONSE_CARDLABEL
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Issuer Name >	KEY_RESPONSE_ISSUERNAME
<Card entry mode>	KEY_RESPONSE_ENTRYMODE
<************NNNN>	KEY_RESPONSE_PAN
Invoice #: <NNNNNN>	KEY_RESPONSE_INVOICENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Description: <NNNNNNNNNNNNN>	KEY_RESPONSE_DESCRIPTION
Amount CAD $ <Amount>	KEY_RESPONSE_BASEAMT
Tip: $ <Amount>	KEY_RESPONSE_TIPAMT
Approved Amt: $ <Amount>	KEY_RESPONSE_APPROVED_AMT
Amount Due: $ <Amount>	KEY_RESPONSE_AMT_DUE
PARTIAL APPROVED AAANNN	KEY_RESPONSE_TEXT; KEY_RESPONSE_AUTHCODE
Please collect the remaining	
Balance of $ <Amount>	
Response Code: 00	KEY_RESPONSE_CODE
Gateway Trxn ID: <NNNNNNNNN>	KEY_RESPONSE_GATEWAYTRANSID
Transaction ID: <AAAAAAANNNNNNNN>	KEY_RESPONSE_EMV_NETWORKID
I AGREE TO PAY ABOVE TOTAL AMOUNT	
ACCORDING TO CARD ISSUER AGREEMENT	
(MERCHANT AGREEMENT IF CREDIT VOUCHER)	
X_____	
<Cardholder name>	KEY_RESPONSE_CARD_HOLDER_NAME
No Refunds	
Store Credit Only	
Thank You	
Please Come Again	
MM/DD/YYY HH:MM	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.3.6   VOID – CREDIT CARD (SIGNATURE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
CREDIT CARD	KEY_RESPONSE_CARDLABEL
Void - <Transaction name>	KEY_RESPONSE_TRANSNAME
<Issuer Name >	KEY_RESPONSE_ISSUERNAME
<Card entry mode>	KEY_RESPONSE_ENTRYMODE
<*************NNNN>	KEY_RESPONSE_PAN
Invoice #: <NNNNNN>	KEY_RESPONSE_INVOICENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Description: <NNNNNNNNNNNNN>	KEY_RESPONSE_DESCRIPTION
Amount **$ <Amount>**	KEY_RESPONSE_BASEAMT
Tip: $ <Amount>	KEY_RESPONSE_TIPAMT
Reversed Amount: **$ <Amount>**	KEY_RESPONSE_REVERSAL_AMT
TOTAL **CAD $ <Amount>**	KEY_RESPONSE_TOTALAMT
APPROVED 123456	KEY_RESPONSE_TEXT; KEY_RESPONSE_AUTHCODE
Response Code: 00	KEY_RESPONSE_CODE
Gateway Trxn ID: <NNNNNNNNNN>	KEY_RESPONSE_GATEWAYTRANSID
Transaction ID: <AAAAAAANNNNNNNN>	KEY_RESPONSE_EMV_NETWORKID
I AGREE TO PAY ABOVE TOTAL AMOUNT	
ACCORDING TO CARD ISSUER AGREEMENT	
(MERCHANT AGREEMENT IF CREDIT VOUCHER)	
X_____	
<Cardholder name>	KEY_RESPONSE_CARD_HOLDER_NAME
No Refunds	
Store Credit Only	
Thank You	
Please Come Again	
MM/DD/YYYY HH:MM	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.3.7 VOID – CREDIT CARD (PIN VERIFIED, NONE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
CREDIT CARD	KEY_RESPONSE_CARDLABEL
Void - <Transaction name>	KEY_RESPONSE_TRANSNAME
<Issuer Name >	KEY_RESPONSE_ISSUERNAME
<Card entry mode> <Card entry mode>	KEY_RESPONSE_ENTRYMODE
<************NNNN>	KEY_RESPONSE_PAN
Invoice #: <NNNNNN>	KEY_RESPONSE_INVOICENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Description: <NNNNNNNNNNNNN>	KEY_RESPONSE_DESCRIPTION
Amount $ <Amount>	KEY_RESPONSE_BASEAMT
Tip: $ <Amount>	KEY_RESPONSE_TIPAMT
Reversed Amount: $ <Amount>	KEY_RESPONSE_REVERSAL_AMT
TOTAL CAD $ <Amount>	KEY_RESPONSE_TOTALAMT
APPROVED 123456	KEY_RESPONSE_TEXT; KEY_RESPONSE_AUTHCODE
Response Code: 00	KEY_RESPONSE_CODE
Gateway Trxn ID: <NNNNNNNNNN>	KEY_RESPONSE_GATEWAYTRANSID
Transaction ID: <AAAAAAANNNNNNNN>	KEY_RESPONSE_EMV_NETWORKID
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
AID NAME: AAAAAAAAAAAA	KEY_RESPONSE_EMV_APPLABEL
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ATC: AANN	KEY_RESPONSE_EMV_ATC
AC: AAAAAAAANNNNNNNN	KEY_RESPONSE_EMV_AC
PIN VERIFIED	KEY_RESPONSE_CVM (returned only if transaction is PIN Verified)
No Refunds	
Store Credit Only	
Thank You	
Please Come Again	
MM/DD/YYY HH:MM	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.3.8   VOID – US DEBIT CARD (PIN VERIFIED)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
DEBIT CARD	KEY_RESPONSE_CARDLABEL
Void - <Transaction name>	KEY_RESPONSE_TRANSNAME
<Issuer Name / >	KEY_RESPONSE_ISSUERNAME
<Card entry mode> <Card entry mode>	KEY_RESPONSE_ENTRYMODE
<*************NNNN>	KEY_RESPONSE_PAN
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Amount **$** **<Amount>**	KEY_RESPONSE_BASEAMT
Cashback: $ <Amount>	KEY_RESPONSE_CASHBKAMT
Tip: $ <Amount>	KEY_RESPONSE_TIPAMT
Reversed Amount: **$ <Amount>**	KEY_RESPONSE_REVERSAL_AMT
TOTAL US $ <Amount>	KEY_RESPONSE_TOTALAMT
APPROVED 123456	KEY_RESPONSE_TEXT; KEY_RESPONSE_AUTHCODE
Response Code: 00 / 00	KEY_RESPONSE_CODE; KEY_RESPONSE_CODE_ISO
Gateway Trxn ID: <NNNNNNNNNN>	KEY_RESPONSE_GATEWAYTRANSID
Transaction ID:	
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
AID NAME: AAAAAAAAAAAA	KEY_RESPONSE_EMV_APPLABEL

TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ATC: AANN	KEY_RESPONSE_EMV_ATC
AC: AAAAAAAANNNNNNNN	KEY_RESPONSE_EMV_AC
PIN VERIFIED	
No Refunds	
Store Credit Only	
Thank You	
Please Come Again	
MM/DD/YYY HH:MM	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.3.9 VOID – INTERAC CARD (PIN VERIFIED)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
DEBIT CARD	KEY_RESPONSE_CARDLABEL
Void - <Transaction name>	KEY_RESPONSE_TRANSNAME
<Issuer Name / Account Type >	KEY_RESPONSE_ISSUERNAME
<Card entry mode> <Card entry mode>	KEY_RESPONSE_ENTRYMODE
<*************NNNN>	KEY_RESPONSE_PAN
Invoice #: <NNNNNN>	KEY_RESPONSE_INVOICENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Amount $ <Amount>	KEY_RESPONSE_BASEAMT
Cashback: $ <Amount>	KEY_RESPONSE_CASHBKAMT
Tip: $ <Amount>	KEY_RESPONSE_TIPAMT
Reversed Amount: $ <Amount>	KEY_RESPONSE_REVERSAL_AMT
TOTAL CAD $ <Amount>	KEY_RESPONSE_TOTALAMT
APPROVED 123456	KEY_RESPONSE_TEXT; KEY_RESPONSE_AUTHCODE
Response Code: 00 / 00	KEY_RESPONSE_CODE; KEY_RESPONSE_CODE_ISO
Bank Response Code: 001	KEY_RESPONSE_BANKRESPONSECODE
Sequence #: <NNNNNNNNNN>	KEY_RESPONSE_SEQUENCENUM
Gateway Trxn ID: <NNNNNNNNNN>	KEY_RESPONSE_GATEWAYTRANSID
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
AID NAME: AAAAAAAAAAAA	KEY_RESPONSE_EMV_APPLABEL
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ATC: AANN	KEY_RESPONSE_EMV_ATC
AC: AAAAAAAANNNNNNNN	KEY_RESPONSE_EMV_AC
PIN VERIFIED	
No Refunds	
Store Credit Only	
Thank You	
Please Come Again	
MM/DD/YYY HH:MM	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.3.10   PARTIAL VOID – CREDIT CARD (SIGNATURE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
CREDIT CARD	KEY_RESPONSE_CARDLABEL
Partial Void - <Transaction name>	KEY_RESPONSE_TRANSNAME
<Issuer Name >	KEY_RESPONSE_ISSUERNAME
<Card entry mode>	KEY_RESPONSE_ENTRYMODE
<************NNNN>	KEY_RESPONSE_PAN
Invoice #: <NNNNNN>	KEY_RESPONSE_INVOICENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Description: <NNNNNNNNNNNNN>	KEY_RESPONSE_DESCRIPTION
Amount $ <Amount>	KEY_RESPONSE_BASEAMT
Tip: $ <Amount>	KEY_RESPONSE_TIPAMT
Reversed Amount: $ <Amount>	KEY_RESPONSE_REVERSAL_AMT
TOTAL CAD $ <Amount>	KEY_RESPONSE_TOTALAMT
APPROVED 123456	KEY_RESPONSE_TEXT; KEY_RESPONSE_AUTHCODE
Response Code: 00	KEY_RESPONSE_CODE
Gateway Trxn ID: <NNNNNNNNNN>	KEY_RESPONSE_GATEWAYTRANSID
Transaction ID: <AAAAAAANNNNNNNN>	KEY_RESPONSE_EMV_NETWORKID
I AGREE TO PAY ABOVE TOTAL AMOUNT	
ACCORDING TO CARD ISSUER AGREEMENT	
(MERCHANT AGREEMENT IF CREDIT VOUCHER)	
X_____	
<Cardholder name>	KEY_RESPONSE_CARD_HOLDER_NAME
No Refunds	
Store Credit Only	
Thank You	
Please Come Again	
MM/DD/YYY HH:MM	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.3.11   PARTIAL VOID – CREDIT CARD (PIN VERIFIED, NONE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
CREDIT CARD	KEY_RESPONSE_CARDLABEL
Partial Void - <Transaction name>	KEY_RESPONSE_TRANSNAME
<Issuer Name >	KEY_RESPONSE_ISSUERNAME
<Card entry mode> <Card entry mode>	KEY_RESPONSE_ENTRYMODE
<************NNNN>	KEY_RESPONSE_PAN
Invoice #: <NNNNNN>	KEY_RESPONSE_INVOICENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Description: <NNNNNNNNNNNNN>	KEY_RESPONSE_DESCRIPTION
Amount $ <Amount>	KEY_RESPONSE_BASEAMT
Tip: $ <Amount>	KEY_RESPONSE_TIPAMT
Reversed Amount: $ <Amount>	KEY_RESPONSE_REVERSAL_AMT
TOTAL CAD $ <Amount>	KEY_RESPONSE_TOTALAMT
APPROVED 123456	KEY_RESPONSE_TEXT; KEY_RESPONSE_AUTHCODE
Response Code: 00	KEY_RESPONSE_CODE
Gateway Trxn ID: <NNNNNNNNNN>	KEY_RESPONSE_GATEWAYTRANSID
Transaction ID: <AAAAAAANNNNNNNN>	KEY_RESPONSE_EMV_NETWORKID
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
AID NAME: AAAAAAAAAAAA	KEY_RESPONSE_EMV_APPLABEL
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ATC: AANN	KEY_RESPONSE_EMV_ATC
AC: AAAAAAAANNNNNNNN	KEY_RESPONSE_EMV_AC
PIN VERIFIED	KEY_RESPONSE_CVM (returned only if transaction is PIN Verified)
No Refunds	
Store Credit Only	
Thank You	
Please Come Again	
MM/DD/YYY HH:MM	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.3.12   DECLINED – CREDIT CARD

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
CREDIT CARD	KEY_RESPONSE_CARDLABEL
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Issuer Name >	KEY_RESPONSE_ISSUERNAME
<Card entry mode> <Card entry mode>	KEY_RESPONSE_ENTRYMODE
<*************NNNN>	KEY_RESPONSE_PAN
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Description: <NNNNNNNNNNNNN>	KEY_RESPONSE_DESCRIPTION
Amount $ **<Amount>**	KEY_RESPONSE_BASEAMT
Tip: $ <Amount>	KEY_RESPONSE_TIPAMT
Total CAD $ **<Amount>**	KEY_RESPONSE_TOTALAMT
TRANSACTION DECLINED BY CARD	
Response: DECLINED	KEY_RESPONSE_TEXT
Decline Code: Z1	KEY_RESPONSE_CODE
Sequence #: <NNNNNNNNNN>	KEY_RESPONSE_SEQUENCENUM
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
AID NAME: AAAAAAAAAAAA	(Key response not yet available.)
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
TSI: 0000	KEY_RESPONSE_TSI
MM/DD/YYY HH:MM	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MERCHANT COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.3.13   BALANCE INQUIRY

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
CREDIT CARD	KEY_RESPONSE_CARDLABEL
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Issuer Name >	KEY_RESPONSE_ISSUERNAME
<Card entry mode> <Card entry mode>	KEY_RESPONSE_ENTRYMODE
<************NNNN>	KEY_RESPONSE_PAN
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Available Bal.: CAD$ <Amount>	KEY_RESPONSE_AVAILABLE_AMT
Response Code: 00	KEY_RESPONSE_CODE
Gateway Trxn ID: <NNNNNNNNNN>	KEY_RESPONSE_GATEWAYTRANSID
Transaction ID: <AAAAAAANNNNNNNN>	KEY_RESPONSE_EMV_NETWORKID
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
AID NAME: AAAAAAAAAAAA	KEY_RESPONSE_EMV_APPLABEL
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ATC: AANN	KEY_RESPONSE_EMV_ATC
AC: AAAAAAAANNNNNNNN	KEY_RESPONSE_EMV_AC
PIN VERIFIED	
Thank You	
Please Come Again	
MM/DD/YYY HH:MM	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
CUSTOMER COPY	
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.3.14   REVERSAL

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
CREDIT CARD	KEY_RESPONSE_CARDLABEL
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Issuer Name >	KEY_RESPONSE_ISSUERNAME
<Card entry mode> <Card entry mode>	KEY_RESPONSE_ENTRYMODE
<************NNNN>	KEY_RESPONSE_PAN
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Description: <NNNNNNNNNNNNN>	KEY_RESPONSE_DESCRIPTION
Amount $ **<Amount>**	KEY_RESPONSE_BASEAMT
Tip: $ <Amount>	KEY_RESPONSE_TIPAMT
Reversed Amount: $ **<Amount>**	KEY_RESPONSE_REVERSAL_AMT
Total CAD $ **<Amount>**	KEY_RESPONSE_TOTALAMT
TRANSACTION NOT COMPLETED	
Decline Code: 00	KEY_RESPONSE_CODE
Gateway Trxn ID: <NNNNNNNNNN>	KEY_RESPONSE_GATEWAYTRANSID
Network ID: <AAAAAAANNNNNNNN>	KEY_RESPONSE_EMV_NETWORKID
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
AID NAME: AAAAAAAAAAAA	(Key response not yet available.)
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ATC: AANN	KEY_RESPONSE_EMV_ATC
AC: AAAAAAAANNNNNNNN	KEY_RESPONSE_EMV_AC
Tag 5A: ************NNNN	KEY_RESPONSE_EMV_APPLPAN
Tag 5F2A: 0000	KEY_RESPONSE_EMV_CURRENCYCODE
Tag 5F34: 00	KEY_RESPONSE_EMV_PANSEQNUM
Tag 82: 0000	KEY_RESPONSE_EMV_AIP
Tag 95: 0000000000	KEY_RESPONSE_EMV_TVR
Tag 9A: 000000	KEY_RESPONSE_EMV_TRANSDATE
Tag 9C: 00	KEY_RESPONSE_EMV_TRANSTYPE
Tag 9F02: 000000000000	KEY_RESPONSE_EMV_AMT_AUTH
Tag 9F03: 000000000000	KEY_RESPONSE_EMV_OTH_AMT
Tag 9F07: 0000	KEY_RESPONSE_APP_USAGE_CTRL
Tag 9F0D: 0000000000	KEY_RESPONSE_EMV_IAC_ONLINE
Tag 9F0E: 000000000	KEY_RESPONSE_EMV_IAC_DEFAULT
Tag 9F0F: 0000000000	KEY_RESPONSE_EMV_IAC_DENIAL
Tag 9F10: 00000000000000	KEY_RESPONSE_EMV_IAD
Tag 9F1A: 0000	KEY_RESPONSE_EMV_TERM_CCODE
Tag 9F26: 0000000000000000	KEY_RESPONSE_EMV_AC
Tag 9F27: 00	KEY_RESPONSE_EMV_CID
Tag 9F34: 000000	KEY_RESPONSE_EMV_CVM
Tag 9F36: 0000	KEY_RESPONSE_EMV_ATC
Tag 9F37: 00000000	KEY_RESPONSE_EMV_UNPRED_NUM
TAC Default:	KEY_RESPONSE_EMV_TAC_DEFAULT
TAC Denial:	KEY_RESPONSE_EMV_TAC_DENIAL
TAC Online:	KEY_RESPONSE_EMV_TAC_ONLINE
MM/DD/YYY HH:MM	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
MERCHANT COPY	

<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6

5.4 RAPIDCONNECT

5.4.1 ONLINE PARTIAL APPROVED – CREDIT CARD (SIGNATURE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
<Transaction name>	KEY_RESPONSE_TRANSNAME
CREDIT CARD <Card Brand>	KEY_RESPONSE_CARDLABEL
<Card brand > <***********NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Trans Ref: <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
Amount: **USD$ <Amount>**	KEY_RESPONSE_BASEAMT
Tip USD$ <Amount>	KEY_RESPONSE_TIPAMT
PARTIAL APPROVED	
Approved Amt : **<Amount>**	KEY_RESPONSE_TOTALAMT
Amount Due: **<Amount>**	(Key response not yet available)
Auth Code: XXXXXX	KEY_RESPONSE_AUTHCODE
Response: PARTIAL APPROVAL	KEY_RESPONSE_TEXT
Response Code: 10	KEY_RESPONSE_CODE
The Issuer of the Card identified on this item is authorized to pay the amount shown as 'total' upon proper presentation I promise to pay such total (together with any other charges due to thereon) subject to and in accordance with the agreement governing the use of such Card.	
X_____	
<Cardholder name>	KEY_RESPONSE_CARD_HOLDER_NAME
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6
MERCHANT COPY	

5.4.2   ONLINE APPROVED – CREDIT CARD (SIGNATURE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand > <************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Trans Ref: <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
Amount: USD$ <Amount>	KEY_RESPONSE_BASEAMT
Tip USD$ <Amount>	KEY_RESPONSE_TIPAMT
Total **USD$ <Amount>**	KEY_RESPONSE_TOTALAMT
APPROVED	
Response: APPROVED	KEY_RESPONSE_TEXT
Response Code: 10	KEY_RESPONSE_CODE
Auth Code: XXXXXX	KEY_RESPONSE_AUTHCODE
The Issuer of the Card identified on this item is authorized to pay the amount shown as 'total' upon proper presentation I promise to pay such total (together with any other charges due to thereon) subject to and in accordance with the agreement governing the use of such Card.	
X_____	
<Cardholder name>	KEY_RESPONSE_CARD_HOLDER_NAME
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6
MERCHANT COPY	

5.4.3   ONLINE APPROVED – CREDIT CARD (PIN VERIFIED, NONE)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand > <************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Trans Ref: <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
Amount: **USD$ <Amount>**	KEY_RESPONSE_BASEAMT
Tip USD$ <Amount>	KEY_RESPONSE_TIPAMT
Total **USD$ <Amount>**	KEY_RESPONSE_TOTALAMT
APPROVED	
Response: APPROVED	KEY_RESPONSE_TEXT
Response Code: 10	KEY_RESPONSE_CODE
Auth Code: XXXXXX	KEY_RESPONSE_AUTHCODE
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ARC:	KEY_RESPONSE_ARC
PIN VERIFIED	KEY_RESPONSE_CVM
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6
MERCHANT COPY	

5.4.4   ONLINE APPROVED – DEBIT CARD (PIN VERIFIED)

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand > <*************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Trans Ref: <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
Amount: USD$ <Amount>	KEY_RESPONSE_BASEAMT
Cashback USD$ <Amount>	KEY_RESPONSE_CASHBKAMT
Tip USD$ <Amount>	KEY_RESPONSE_TIPAMT
Total **USD$ <Amount>**	KEY_RESPONSE_TOTALAMT
APPROVED	
Response: APPROVED	KEY_RESPONSE_TEXT
Response Code: 10	KEY_RESPONSE_CODE
Auth Code: XXXXXX	KEY_RESPONSE_AUTHCODE
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ARC:	KEY_RESPONSE_ARC
PIN VERIFIED	KEY_RESPONSE_CVM
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6
MERCHANT COPY	

5.4.5   FULL AND PARTIAL VOID – CREDIT AND DEBIT

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
Void <Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand > <*************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Trans Ref: <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
Amount: **USD$ <Amount>**	KEY_RESPONSE_BASEAMT
Cashback USD$ <Amount>	KEY_RESPONSE_CASHBKAMT
Tip USD$ <Amount>	KEY_RESPONSE_TIPAMT
Total **USD$ <Amount>**	KEY_RESPONSE_TOTALAMT
APPROVED	
Response: APPROVED	KEY_RESPONSE_TEXT
Response Code: 10	KEY_RESPONSE_CODE
Auth Code: XXXXXX	KEY_RESPONSE_AUTHCODE
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ARC:	KEY_RESPONSE_ARC
PIN VERIFIED	KEY_RESPONSE_CVM
<Footer Line 1>	KEY_RESPONSE_FOOTER1
<Footer Line 2>	KEY_RESPONSE_FOOTER2
<Footer Line 3>	KEY_RESPONSE_FOOTER3
<Footer Line 4>	KEY_RESPONSE_FOOTER4
<Footer Line 5>	KEY_RESPONSE_FOOTER5
<Footer Line 6>	KEY_RESPONSE_FOOTER6
MERCHANT COPY	

5.4.6   DECLINED – CREDIT AND DEBIT CARD

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand > <************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Trans Ref: <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
Amount: USD$ <Amount>	KEY_RESPONSE_BASEAMT
Cashback USD$ <Amount>	KEY_RESPONSE_CASHBKAMT
Tip USD$ <Amount>	KEY_RESPONSE_TIPAMT
Total USD$ <Amount>	KEY_RESPONSE_TOTALAMT
DECLINED	
Response COMM ERROR	KEY_RESPONSE_TEXT
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ARC:	KEY_RESPONSE_ARC
EMV Offline Data	
Tag 50: VISA CREDIT	KEY_RESPONSE_EMV_APPLABEL
Tag 5A: ************NNNN	KEY_RESPONSE_EMV_APPLPAN
Tag 5F2A: 0000	KEY_RESPONSE_EMV_CURRENCYCODE
Tag 5F34: 00	KEY_RESPONSE_EMV_PANSEQNUM
Tag 82: 0000	KEY_RESPONSE_EMV_AIP
Tag 95: 0000000000	KEY_RESPONSE_EMV_TVR
Tag 9A: 000000	KEY_RESPONSE_EMV_TRANSDATE
Tag 9C: 00	KEY_RESPONSE_EMV_TRANSTYPE
Tag 9F02: 000000000000	KEY_RESPONSE_EMV_AMT_AUTH
Tag 9F03: 000000000000	KEY_RESPONSE_EMV_OTH_AMT
Tag 9F07: 0000	KEY_RESPONSE_APP_USAGE_CTRL
Tag 9F0D: 0000000000	KEY_RESPONSE_EMV_IAC_ONLINE
Tag 9F0E: 000000000	KEY_RESPONSE_EMV_IAC_DEFAULT
Tag 9F0F: 0000000000	KEY_RESPONSE_EMV_IAC_DENIAL
Tag 9F10: 00000000000000	KEY_RESPONSE_EMV_IAD
Tag 9F12: Visa Credit	KEY_RESPONSE_APPPREFNAME
Tag 9F1A: 0000	KEY_RESPONSE_EMV_TERM_CCODE
Tag 9F26: 0000000000000000	KEY_RESPONSE_EMV_AC
Tag 9F27: 00	KEY_RESPONSE_EMV_CID
Tag 9F34: 000000	KEY_RESPONSE_EMV_CVM
Tag 9F36: 0000	KEY_RESPONSE_EMV_ATC
Tag 9F37: 00000000	KEY_RESPONSE_EMV_UNPRED_NUM
TAC Default:	KEY_RESPONSE_EMV_TAC_DEFAULT
TAC Denial:	KEY_RESPONSE_EMV_TAC_DENIAL
TAC Online:	KEY_RESPONSE_EMV_TAC_ONLINE
Tag 8F:	KEY_RESPONSE_EMV_CAPK_INDEX_KEY

5.4.7 BALANCE INQUIRY

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand > <*************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Trans Ref: <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
Avail. Bal. **USD$ <Amount>**	KEY_RESPONSE_AVAILABLE_AMT
Response: APPROVED	KEY_RESPONSE_TEXT
Response Code: 10	KEY_RESPONSE_CODE
Auth Code: XXXXXX	KEY_RESPONSE_AUTHCODE

5.4.8   AUTO REVERSAL – CREDIT CARD

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAAANNNN>	KEY_RESPONSE_TID
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand > <************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Trans Ref: <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
Amount: **USD$ <Amount>**	KEY_RESPONSE_BASEAMT
Tip USD$ <Amount>	KEY_RESPONSE_TIPAMT
Reversed Amount : **USD$ <Amount>**	KEY_RESPONSE_REVERSAL_AMT
Total **USD$ <Amount>**	KEY_RESPONSE_TOTALAMT
TRANSACTION VOIDED	
Response: APPROVED	KEY_RESPONSE_TEXT
Response Code: 10	KEY_RESPONSE_CODE
Auth Code: XXXXXX	KEY_RESPONSE_AUTHCODE
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ARC:	KEY_RESPONSE_ARC
EMV Offline Data	
Tag 50: VISA CREDIT	KEY_RESPONSE_EMV_APPLABEL
Tag 5A: ************NNNN	KEY_RESPONSE_EMV_APPLPAN
Tag 5F2A: 0000	KEY_RESPONSE_EMV_CURRENCYCODE
Tag 5F34: 00	KEY_RESPONSE_EMV_PANSEQNUM
Tag 82: 0000	KEY_RESPONSE_EMV_AIP
Tag 95: 0000000000	KEY_RESPONSE_EMV_TVR
Tag 9A: 000000	KEY_RESPONSE_EMV_TRANSDATE
Tag 9C: 00	KEY_RESPONSE_EMV_TRANSTYPE
Tag 9F02: 000000000000	KEY_RESPONSE_EMV_AMT_AUTH
Tag 9F03: 000000000000	KEY_RESPONSE_EMV_OTH_AMT
Tag 9F07: 0000	KEY_RESPONSE_APP_USAGE_CTRL
Tag 9F0D: 0000000000	KEY_RESPONSE_EMV_IAC_ONLINE
Tag 9F0E: 000000000	KEY_RESPONSE_EMV_IAC_DEFAULT
Tag 9F0F: 0000000000	KEY_RESPONSE_EMV_IAC_DENIAL
Tag 9F10: 00000000000000	KEY_RESPONSE_EMV_IAD
Tag 9F12: Visa Credit	KEY_RESPONSE_APPPREFNAME
Tag 9F1A: 0000	KEY_RESPONSE_EMV_TERM_CCODE
Tag 9F26: 0000000000000000	KEY_RESPONSE_EMV_AC
Tag 9F27: 00	KEY_RESPONSE_EMV_CID
Tag 9F34: 000000	KEY_RESPONSE_EMV_CVM
Tag 9F36: 0000	KEY_RESPONSE_EMV_ATC
Tag 9F37: 00000000	KEY_RESPONSE_EMV_UNPRED_NUM
TAC Default:	KEY_RESPONSE_EMV_TAC_DEFAULT
TAC Denial:	KEY_RESPONSE_EMV_TAC_DENIAL
TAC Online:	KEY_RESPONSE_EMV_TAC_ONLINE

5.4.9   AUTO REVERSAL – DEBIT CARD

Receipt Format	Key Response
<Header Line 1>	KEY_RESPONSE_HEADER1
<Header Line 2>	KEY_RESPONSE_HEADER2
<Header Line 3>	KEY_RESPONSE_HEADER3
<Header Line 4>	KEY_RESPONSE_HEADER4
<Header Line 5>	KEY_RESPONSE_HEADER5
<Header Line 6>	KEY_RESPONSE_HEADER6
MID: <AAAAANNNNN>	KEY_RESPONSE_MID
TID: <AAAANNNN>	KEY_RESPONSE_TID
<MM/DD/YYYY> <HH:MM AM>	KEY_RESPONSE_DATE; KEY_RESPONSE_TIME
<Transaction name>	KEY_RESPONSE_TRANSNAME
<Card brand > <************NNNN>	KEY_RESPONSE_CARDLABEL; KEY_RESPONSE_PAN
Entry Mode: <Card entry mode>	KEY_RESPONSE_ENTRYMODE
Invoice #: <NNNNNNN>	KEY_RESPONSE_INVOICENUM
Clerk/Server: <NNNN>	KEY_RESPONSE_CLERKID
Trace #: <NNNNNN>	KEY_RESPONSE_TRACENUM
Trans Ref: <NNNNNNNNNNNN>	KEY_RESPONSE_TRANSREF
Amount: **USD$ <Amount>**	KEY_RESPONSE_BASEAMT
Cashback USD$ <Amount>	KEY_RESPONSE_CASHBKAMT
Tip USD$ <Amount>	KEY_RESPONSE_TIPAMT
Reversed Amount : **USD$ <Amount>**	KEY_RESPONSE_REVERSAL_AMT
Total **USD$ <Amount>**	KEY_RESPONSE_TOTALAMT
TRANSACTION VOIDED	
Response: APPROVED	KEY_RESPONSE_TEXT
Response Code: 10	KEY_RESPONSE_CODE
Auth Code: XXXXXX	KEY_RESPONSE_AUTHCODE
EMV Details	
AID: 00000000000000	KEY_RESPONSE_AID
TVR: 0000000000	KEY_RESPONSE_EMV_TVR
IAD: 00000000000000	KEY_RESPONSE_IAD
TSI: 0000	KEY_RESPONSE_TSI
ARC:	KEY_RESPONSE_ARC
EMV Offline Data	
Tag 50: VISA CREDIT	KEY_RESPONSE_EMV_APPLABEL
Tag 5A: ************NNNN	KEY_RESPONSE_EMV_APPLPAN
Tag 5F2A: 0000	KEY_RESPONSE_EMV_CURRENCYCODE
Tag 5F34: 00	KEY_RESPONSE_EMV_PANSEQNUM
Tag 82: 0000	KEY_RESPONSE_EMV_AIP
Tag 95: 0000000000	KEY_RESPONSE_EMV_TVR
Tag 9A: 000000	KEY_RESPONSE_EMV_TRANSDATE
Tag 9C: 00	KEY_RESPONSE_EMV_TRANSTYPE
Tag 9F02: 000000000000	KEY_RESPONSE_EMV_AMT_AUTH
Tag 9F03: 000000000000	KEY_RESPONSE_EMV_OTH_AMT
Tag 9F07: 0000	KEY_RESPONSE_APP_USAGE_CTRL
Tag 9F0D: 0000000000	KEY_RESPONSE_EMV_IAC_ONLINE
Tag 9F0E: 000000000	KEY_RESPONSE_EMV_IAC_DEFAULT
Tag 9F0F: 0000000000	KEY_RESPONSE_EMV_IAC_DENIAL
Tag 9F10: 00000000000000	KEY_RESPONSE_EMV_IAD
Tag 9F12: Visa Credit	KEY_RESPONSE_APPPREFNAME
Tag 9F1A: 0000	KEY_RESPONSE_EMV_TERM_CCODE

Tag 9F26: 0000000000000000	KEY_RESPONSE_EMV_AC
Tag 9F27: 00	KEY_RESPONSE_EMV_CID
Tag 9F34: 000000	KEY_RESPONSE_EMV_CVM
Tag 9F36: 0000	KEY_RESPONSE_EMV_ATC
Tag 9F37: 00000000	KEY_RESPONSE_EMV_UNPRED_NUM
TAC Default:	KEY_RESPONSE_EMV_TAC_DEFAULT
TAC Denial:	KEY_RESPONSE_EMV_TAC_DENIAL
TAC Online:	KEY_RESPONSE_EMV_TAC_ONLINE

APPENDIX A

RESPONSE KEY DATA VALUES

The following table contains the list of values that are returned by BaseApp:

Response	Response Key Text Value	Description
KEY_RESPONSE_MERCH_NAME	response_merch_name_key	Merchant Name
KEY_RESPONSE_MERCH_ADD1	response_merch_add1_key	Merchant Address 1
KEY_RESPONSE_MERCH_ADD2	response_merch_add2_key	Merchant Address 2
KEY_RESPONSE_CUST_SERV_PHONE	response_cust_serv_phone_key	Customer Service Phone
KEY_RESPONSE_TIME	response_time_key	Transaction Time
KEY_RESPONSE_DATE	response_date_key	Transaction Date
KEY_RESPONSE_TID	response_tid_key	Terminal ID
KEY_RESPONSE_MID	response_mid_key	Merchant ID
KEY_RESPONSE_TRANSNAME	response_transname_key	Transaction Name
KEY_RESPONSE_CARD_HOLDER_NAME	response_card_holder_name_key	Cardholder Name
KEY_RESPONSE_CARDLABEL	response_cardlabel_key	Card Label
KEY_RESPONSE_PAN	response_pan_key	Masked Primary Account Number (only showing the first six and last four digits)
KEY_RESPONSE_TRACK1	response_track1_key	Masked Track1 data of the card
KEY_RESPONSE_TRACK2	response_track2_key	Masked Track2 data of the card
KEY_RESPONSE_EXPIRYDATE	response_expirydate_key	Card Expiration Date
KEY_RESPONSE_ENTRYMODE	response_entrymode_key	Card Entry Mode
KEY_RESPONSE_CVM	response_cvm_key	Card Verification Method

KEY_RESPONSE_INVOICENUM	response_invoicenum_key	Invoice Number
KEY_RESPONSE_CLERKID	response_clerkid_key	Clerk ID
KEY_RESPONSE_STORENUM	response_storenum_key	Store Number
KEY_RESPONSE_TRACENUM	response_trace_key	Trace Number
KEY_RESPONSE_BATCHNUM	response_batch_key	Batch Number
KEY_RESPONSE_USER_DEFINED_ECHO_DATA	response_user_defined_echo_data	Unique ID from Host identifying the transaction
KEY_RESPONSE_BASEAMT	response_baseamt_key	Base Amount
KEY_RESPONSE_TIPAMT	response_tipamt_key	Tip Amount
KEY_RESPONSE_CASHBKAMT	response_cashbkamt_key	Cashback Amount
KEY_RESPONSE_SURCHARGEAMT	response_surchargeamt_key	Surcharge Amount
KEY_RESPONSE_REVERSAL_AMT	response_reversal_amt_key	Reversed Amount
KEY_RESPONSE_TOTALAMT	response_totalamt_key	Total Amount
KEY_RESPONSE_TVR	response_tvr_key	Terminal Verification Result
KEY_RESPONSE_AID	response_aid_key	Application Identifier
KEY_RESPONSE_AUTHCODE	response_authcode_key	Authorization Code
KEY_RESPONSE_SEQUENCENUM	response_sequencenum_key	Sequence Number
KEY_RESPONSE_CURRENCY	response_currency_key	Currency
KEY_RESPONSE_IAD	response_iad_key	Issuer Application Data
KEY_RESPONSE_TSI	response_tsi_key	Transaction Status Indicator
KEY_RESPONSE_ARC	response_arc_key	Authorisation Response Code
KEY_RESPONSE_CODE	response_code_key	Response Code from Host
KEY_RESPONSE_TEXT	response_text_key	Response Text from Host

KEY_RESPONSE_APPPREFNAME	response_appprefname_key	Application Preferred Name
KEY_RESPONSE_TC	response_tc_key	Transaction Certificate
KEY_RESPONSE_HOSTTIMESTAMP	response_hosttimestamp_key	Host Timestamp
KEY_RESPONSE_TRANSREF	response_transref_key	Transaction Reference Number
KEY_RESPONSE_XMLDATA	response_xmldata_key	Certain transactions and operations utilize this response key to return multiple values in XML format.
KEY_RESPONSE_TAGVALUE	response_tagvalue_key	The value obtained from the configuration file of BaseApp.
KEY_RESPONSE_RESULTCODE	response_resultcode_key	Transaction result code. This must not be confused with KEY_RESPONSE_CODE. Refer to **Appendix C** for details.
KEY_RESPONSE_HEADER1	response_header1_key	Header Line 1 of the receipt
KEY_RESPONSE_HEADER2	response_header2_key	Header Line 2 of the receipt
KEY_RESPONSE_HEADER3	response_header3_key	Header Line 3 of the receipt
KEY_RESPONSE_HEADER4	response_header4_key	Header Line 4 of the receipt
KEY_RESPONSE_HEADER5	response_header5_key	Header Line 5 of the receipt
KEY_RESPONSE_HEADER6	response_header6_key	Header Line 6 of the receipt

KEY_RESPONSE_FOOTER1	response_footer1_key	Footer Line 1 of the receipt
KEY_RESPONSE_FOOTER2	response_footer2_key	Footer Line 2 of the receipt
KEY_RESPONSE_FOOTER3	response_footer3_key	Footer Line 3 of the receipt
KEY_RESPONSE_FOOTER4	response_footer4_key	Footer Line 4 of the receipt
KEY_RESPONSE_FOOTER5	response_footer5_key	Footer Line 5 of the receipt
KEY_RESPONSE_FOOTER6	response_footer6_key	Footer Line 6 of the receipt
KEY_RESPONSE_TRANSID	response_transid_key	Batch Transaction ID
KEY_RESPONSE_CASHBACKFEE	response_cashbackfee_key	Cashback Fee
KEY_RESPONSE_NONCASHFEE	response_noncashfee_key	Non-cash Fee
KEY_RESPONSE_EMV_SETTLEDATE	response_emv_settledate_key	Settlement Date
KEY_RESPONSE_EMV_NETWORKID	response_emv_networkid_key	Network ID
KEY_RESPONSE_EMV_APPLABEL	response_emv_applabel_key	EMV Application Label
KEY_RESPONSE_EMV_APPLPAN	response_emv_app_pan_key	EMV Application Primary Account Number
KEY_RESPONSE_EMV_CURRENCYCODE	response_emv_currencycode_key	EMV Currency Code
KEY_RESPONSE_EMV_PANSEQNUM	response_emv_panseqnum_key	EMV PAN Sequence Number
KEY_RESPONSE_EMV_AIP	response_emv_aip_key	EMV Application Interchange Profile
KEY_RESPONSE_EMV_TVR	response_emv_tvr_key	EMV Transaction Verification Results
KEY_RESPONSE_EMV_TRANSDATE	response_emv_transdate_key	EMV Transaction Date

KEY_RESPONSE_EMV_TRANSTYPE	response_emv_transtype_key	EMV Transaction Type
KEY_RESPONSE_EMV_AMT_AUTH	response_emv_auth_amt_key	EMV Authorized Amount
KEY_RESPONSE_EMV_OTH_AMT	response_emv_oth_amt_key	EMV Other Amount
KEY_RESPONSE_APP_USAGE_CTRL	response_emv_usage_ctrl_key	EMV Usage Control
KEY_RESPONSE_EMV_IAC_ONLINE	response_emv_iac_online_key	EMV Issuer Action Code – Online
KEY_RESPONSE_EMV_IAC_DEFAULT	response_emv_iac_default_key	EMV Issuer Action Code – Default
KEY_RESPONSE_EMV_IAC_DENIAL	response_emv_iac_denial_key	EMV Issuer Action Code – Denial
KEY_RESPONSE_EMV_TERM_CCODE	response_emv_termcode_key	EMV Terminal Country code
KEY_RESPONSE_EMV_AC	response_emv_ac_key	EMV Application Cryptogram
KEY_RESPONSE_EMV_CID	response_emv_cid_key	EMV Cryptogram Information data
KEY_RESPONSE_EMV_IAD	response_emv_iad_key	EMV Issuer Application Data
KEY_RESPONSE_EMV_CVM	response_emv_cvm_key	EMV Card Verification Mode
KEY_RESPONSE_EMV_ATC	response_emv_atc_key	EMV Application Transaction Counter
KEY_RESPONSE_EMV_UNPRED_NUM	response_emv_unpred_num_key	EMV Unpredicable Number
KEY_RESPONSE_EMV_TAC_ONLINE	response_emv_tac_online_key	EMV Terminal Action Code - Online
KEY_RESPONSE_EMV_TAC_DEFAULT	response_emv_tac_default_key	EMV Terminal Action Code - Default
KEY_RESPONSE_EMV_TAC_DENIAL	response_emv_tac_denial_key	EMV Terminal Action Code - Denial

KEY_RESPONSE_TOKEN_DATA	response_token_data	Tokenized Data
KEY_RESPONSE_APP_VERSION	response_app_version_key	Application Version
KEY_RESPONSE_EMV_HOSTTIMES TAMP	response_emv_hosttimestamp_key	EMV Host timestamp
KEY_RESPONSE_EMV_APP_TRANS DATA	response_emv_app_transdata	EMV Application Transaction Data
KEY_RESPONSE_CODE_ISO	response_code_iso_key	ISO Response Code
KEY_RESPONSE_SWVER	response_swver_key	PayFacto Software Version assigned key
KEY_RESPONSE_ISSUERNAME	response_issuername	Issuer Name
KEY_RESPONSE_GATEWAYTRANSI D	response_gatewaytransid	Gateway Transaction ID
KEY_RESPONSE_BANKRESPONSE CODE	response_bankresponsecode	Bank Response Code
KEY_RESPONSE_AVAILABLE_AMT	response_available_amt_key	Available Amount
KEY_RESPONSE_JSONRCPT	key_response_jsonrcpt	Contains the receipt data in JSON format
KEY_RESPONSE_EMV_CAPK_INDE X_KEY	response_emv_capk_index_key	Contains CAPK index.
KEY_RESPONSE_AMT_DUE	response_amt_due_key	Amount Due
KEY_RESPONSE_APPROVED_AMT	response_approved_amt_key	Approved Amount
KEY_RESPONSE_ORDER_NUM	response_purchase_order_num	Purchase Order Number Used in Puchase Card in FDRC.
KEY_RESPONSE_PURCHASE_IDEN TIFIER	response_purchase_identifier	Purchase Identifier Used in Puchase Card in FDRC.
KEY_RESPONSE_MERCHANT_TAX_ ID	response_merchant_tax_id	Merchant Tax ID Used in Puchase Card in FDRC.

KEY_RESPONSE_TAX_EXEMPT_STATUS	response_tax_exempt_status_key	Tax Exempt
KEY_RESPONSE_PAYMENT_TYPE	response_payment_type	Payment Type
KEY_RESPONSE_DISCOUNT_AMT	response_discount_amt_key	Discount Amount for Auxiliary Fee
KEY_RESPONSE_ENTRY_LEGEND	response_entry_legend	Entry Legend
KEY_RESPONSE_FOOD_STAMP_ID	response_food_stamp_id	Food Stamp ID
KEY_RESPONSE_LANE_ID	response_lane_id	Lane ID
KEY_RESPONSE_DEMO_MODE	response_demo_mode_key	DEMO Mode Response Field
KEY_RESPONSE_EBT_VOUCHER_SERIAL	response_ebt_voucher_serial	EBT Voucher Serial Number
KEY_RESPONSE_EBT_VOUCHER_CODE	response_ebt_voucher_code	EBT Voucher Code
KEY_RESPONSE_LOCALTIME	response_localtime_key	TSYS Host transaction time
KEY_RESPONSE_LOCALDATE	response_localdate_key	TSYS Host transaction date

APPENDIX B

SAMPLE SOURCE CODE

1)   Purchase Transaction. The Purchase API call is demonstrated in the following code sample:

```
mTransactionController = TransactionController.getInstance();
mTransactionController.setCallingActivity(this);
mTransactionController.setBaseAmount(amount);
mTransactionController.setTipAmount(tip);
mTransactionController.setCashbackAmount(cashback);
mTransactionController.setSurchargeAmount(surcharge);
mTransactionController.setTaxAmount(tax);
mTransactionController.performPurchase();
```

2)   Refund Transaction. The Refund API call is demonstrated in the following code sample:

```
mTransactionController = TransactionController.getInstance();
mTransactionController.setCallingActivity(this);
mTransactionController.setBaseAmount(amount);
mTransactionController.performRefund();
```

3)   Void Transaction. The Void API call is demonstrated in the following code sample:

```
mTransactionController = TransactionController.getInstance();
mTransactionController.setCallingActivity(this);
mTransactionController.performVoid();
```

4)   Generating a Digital Receipt (PDF Receipt) file is demonstrated in the following code sample:

In order to generate a PDF receipt, prepare the "bitmap" parameter which contains the image of the receipt, according to the instructions in   **Receipt Samples**. The "outputStream" parameter should point to the file where the PDF receipt will be saved.

```
private void saveToPdfFile(Bitmap bitmap, OutputStream outputStream)
{
    PdfDocument pdfDocument = new PdfDocument();
    int width = bitmap.getWidth();
    int height = bitmap.getHeight();
    PdfDocument.PageInfo.Builder builder = new
    PdfDocument.PageInfo.Builder(width, height, 1);
    PdfDocument.PageInfo pageInfo = builder.create();
    PdfDocument.Page pdfPage = pdfDocument.startPage(pageInfo);
    Canvas pdfCanvas = pdfPage.getCanvas();
    pdfCanvas.drawBitmap(bitmap, 0, 0, mPaint);
    pdfDocument.finishPage(pdfPage);

    try {
        pdfDocument.writeTo(outputStream);
    } catch (IOException e) {
        e.printStackTrace();
```

```
        } catch (NullPointerException e) {
            e.printStackTrace();
        }
        pdfDocument.close();
    }
```

APPENDIX C

RESULT CODE TABLE

After BaseApp processing is complete, it sends a result code to confirm the transaction status, using variable "KEY_RESPONSE_RESULTCODE". This must not be confused with "KEY_RESPONSE_CODE" which is the host response code. The following table is the list of possible values returned by the key.

Result Code Macro	Value	Data Type	Description
RESULTCODE_OK	0000	String	Returned when transaction is successful.
RESULTCODE_CANCEL	-1001	String	Returned when cancel is pressed during transaction.
RESULTCODE_TIMEOUT	-1002	String	Returned when timeout occurs during transaction.
RESULTCODE_TRANSERROR	-1003	String	Generic Transaction error (invalid input).
RESULTCODE_RECNOTFOUND	-1005	String	Returned when record is not found
RESULTCODE_NOTALLOWED	-1006	String	Returned when transaction is not allowed
RESULTCODE_KEYEXCHANGEERR	-2001	String	Key exchange is not successful.
RESULTCODE_PARAMDLERR	-2002	String	Parameter download is not successful.
RESULTCODE_EMVDLERR	-2003	String	EMV download is not successful.

APPENDIX D

RESPONSE KEY DATA VALUES PER PROCESSOR

The following table contains the list of actual values that are returned by BaseApp for the mentioned response keys per host processor:

Response	Processor	Values
KEY_RESPONSE_CARDLABEL	TSYS	DEBIT CREDIT EBT
	Global Payment	DEBIT CREDIT
	FD RapidConnect	DEBIT CREDIT EBT FLEET EWIC
	PayFacto	DEBIT/CHQ DEBIT/SAV CREDIT/ (+ Issuer name, example: CREDIT/Mastercard)
KEY_RESPONSE_TRANSNAME	TSYS	SALE PRE-AUTH COMPLETION RETURN FORCE POST FS SALE

		FS EVOUCHER
		FS RETURN
		CASH WITHDRAW
		CASH SALE
		BALANCE INQUIRY
		TOKEN REQUEST
		VOID SALE
		VOID PRE-AUTH
		VOID COMPLETION
		VOID RETURN
		VOID FORCE POST
		VOID FS SALE
		VOID FS EVOUCHER
		VOID FS RETURN
		VOID CASH WITHDRAW
		VOID CASH SALE
		RE-ENTER SALE
		RE-ENTER REFUND
		RE-ENTER FS SALE
		RE-ENTER FS EVOUCHER
		RE-ENTER FS RETURN
		RE-ENTER CASH WITHDRAW
		RE-ENTER CASH SALE
	Global Payment	SALE

		PRE_AUTH
		COMPLETION
		RETURN
		TIP ADJUST
		FORCE POST
		BALANCE INQUIRY
		ACCOUNT VERIFY
		CPC EDIT
		ADDITIONAL PRE-AUTH
		VOID SALE
		VOID PRE_AUTH
		VOID COMPLETION
		VOID RETURN
		VOID FORCE POST
	FD RapidConnect	SALE
		BALANCE INQUIRY
		PRE-AUTH
		INCREMENTAL AUTH
		COMPLETION
		REFUND
		CARD AUTHENTICATION
		FORCE POST
		TA TOKEN REQUEST
		FS SALE
		CASH SALE
		BAL.INQ. FOOD STAMP
		BAL.INQ. CASH BEN.

		FS REFUND
		FS EVOUCHER
	PayFacto	PURCHASE
		PRE-AUTH
		COMPLETION
		REFUND
		FORCE POST
		CARD AUTH
		PURCHASE CORRECTION
		REFUND CORRECTION
KEY_RESPONSE_ISSUERNAME	TSYS	VISA
		MASTERCARD
		AMEX
		DISCOVER
		DINERS
		JCB
	Global Payment	VISA
		MASTERCARD
		AMEX
		DISCOVER
		DINERS
		JCB
		INTERAC - there is an additional info for the account type: e.g. INTERAC / SAVINGS (or CHECQUING or DEFAULT)
	FD RapidConnect	VISA

		MASTERCARD
		MAESTRO
		AMEX
		DISCOVER
		DINERS
		JCB
		EBT
		DNA
		Fleet One
		FleetCor
		MC Fleet
		VISA Fleet
		Voyager
		Wright Express
	PayFacto	VISA
		MASTERCARD
		AMEX
		INTERAC
		DISCOVER
		JCB

APPENDIX E

LIST OF APPROVE HOST RESPONSE CODES

The following table contains the list of actual values that are considered approved or partially approved per host processors.

TSYS Approved/Partially Approved response codes:

Transaction	Response Code	Response Text	Response Definition
Financial Transactions	00	APPROVAL	Approved and completed
	08	APPROVAL	Honor Mastercard with ID
	10	PARTIAL APPROVAL	Partial approval for the authorized amount returned in Group III version 022
	11	APPROVAL	VIP approval
	85	CARD OK	No reason to decline
	K0	TOKEN RESPONSE	Token request was processed
	T0	APPROVAL	First check is okay and has been converted
Settlement	GB	ACCEPTED	Good Batch
Terminal Authentication (Login/Logout)	A1	ACTIVATED	POS device authentication successful
	A3	DEACTIVATED	POS device deactivation successful

Global Payments Approved/Partially Approved response codes:

Transaction	Response Code	Response Text	Response Definition
Financial Transactions	00	APPROVAL	Approved
	10	PARTIAL APPROVAL	Approved
Settlement	Not applicable	Not applicable	Not applicable

PayFacto Approved/Partially Approved response codes:

Transaction	Response Code	Response Text	Response Definition
Financial Transactions	000	Approved	Approved
Settlement	000	Approved	Approved
Terminal Initialization (Key Exchange, Host Parameter Download, and EMV Download)	000	Approved	Approved

FD RapidConnect Approved/Partially Approved response codes:

Transaction	Response Code	Response Text	Response Definition
Financial Transactions	000	APPROVAL	Approved
	10	PARTIAL APPROVAL	Approved
Settlement	Not applicable	Not applicable	Not applicable

APPENDIX F

LIST OF ADDITIONAL DATA USED IN RAPIDCONNECT

Card Additional Data samples used in the RapidConnect Unattended build.

1) **Fleet Group:** This group contains fields that are required only in Fleet transactions.

 XML Group Tag Name: FltGrp

Fleet Group contains:

- ODOMETER - This field identifies the vehicle's odometer reading keyed in by the customer or clerk.

XML Tag Name	Length	Data Type
Odo	8	Numeric

- Vehicle Number - This field identifies the vehicle number.

XML Tag Name	Length	Data Type
VehNum	9	Numeric

- Job Number - This field identifies the Job Number.

XML Tag Name	Length	Data Type
JobNum	9	Alphanumeric

- Driver/ID Number - This field represents the unencrypted Driver or Identification number.

XML Tag Name	Length	Data Type
DrvNum	9	Alphanumeric

- Fleet Employee Number - This field identifies the Fleet Employee Number.

XML Tag Name	Length	Data Type

FltEmpNum	10	Alphanumeric

- License Number - This field identifies the License Number of the fleet card user.

XML Tag Name	Length	Data Type
LicNum	10	Alphanumeric

- Job ID - This field identifies the job ID.

XML Tag Name	Length	Data Type
JobID	12	Alphanumeric

- Department Number - This field identifies the Department Number.

XML Tag Name	Length	Data Type
DeptNum	12	Alphanumeric

- Customer Data - This field contains the customer data.

XML Tag Name	Length	Data Type
CustData	12	Alphanumeric

- User ID - This field identifies the User ID.

XML Tag Name	Length	Data Type
UserID	12	Alphanumeric

- Vehicle ID Number - This field identifies the Vehicle ID Number.

XML Tag Name	Length	Data Type
VehIDNum	8	Alphanumeric

- Service Restriction Code - This field contains the Service Code that may be sent if Track 2 Data is not sent.

XML Tag Name	Length	Data Type
ServResCd	3	Alphanumeric

Sample JSON Format:

{

"FltGrp":   {

 "Odo":"111",

 "DrvNum":"11411",

 "VehNum":"234677"

   }

}

2) **Product Code Group**: This group contains fields that identify NACS (National Association of Convenience Stores) products and services sold.

XML Group Tag Name: ProdCodeGrp

Product Code Group Contains:

- Service Level - Identifies the dispense type for a transaction with Product Code data.

XML Tag Name	Length	Data Type
ServLvl	1	Alphanumeric

- Number of Products - Identifies the count of NACS Product Codes reported for a transaction.

XML Tag Name	Length	Data Type
NumOfProds	2	Numeric

3) **Product Code Detail Group**: This group contains repeatable fields for NACS (National Association of Convenience Stores) products and services sold. This group of fields has limited platform availability.

> Note: For each set of Product Code Detail that needs to be passed, a group of NACS
>
> Product Code, Unit of Measure, Quantity, Unit Price, and Product Amount must be present.
>
> XML Group Tag Name: ProdCodeDetGrp

Product Code Detail Group Contains:

- NACS Product Code - This field identifies the NACS Product Codes reported for a transaction.

XML Tag Name	Length	Data Type
NACSProdCode	3	Alphanumeric

- Unit Of Measure - This field identifies the type of measurement for each NACS product sold.

XML Tag Name	Length	Data Type
UnitOfMsure	1	Alphanumeric

- Quantity - This field identifies the number of product units sold.

XML Tag Name	Length	Data Type
Qnty	9	Numeric

- Unit Price - This field identifies the price per Unit of Measure for each NACS Product Code reported in a transaction.

XML Tag Name	Length	Data Type
UnitPrice	9	Numeric

- Product Amount - This field identifies the monetary value of product purchased.

XML Tag Name	Length	Data Type
ProdAmt	12	Numeric

Sample JSON Format:

```
{

        "ProdCodeGrp": {

                "ServLvl": "F",

                "NumOfProds": "02"

        },

        "ProdCodeDetGrp01": {

                "NACSProdCode": "019",

                "UnitOfMsure": "L",

                "Qnty": "01",

                "UnitPrice": "21023",

                "ProdAmt": "1023"

        },

        "ProdCodeDetGrp02": {

                "NACSProdCode": "101",

                "UnitOfMsure": "G",

                "Qnty": "02",

                "UnitPrice": "21245",

                "ProdAmt": "1245"

        }

}
```