SMARTaccept™

API Specifications

v1.0

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For technical questions or certification requirements regarding your integration, please email integrationsupport@greenlightpayments.com

Introduction

Greenlight Payments SMARTaccept™ is simply the smartest payment integration available in the market today, and is designed to minimize Application Developers PA-DSS scope as well Merchant's PCI-DSS scope by isolating payment card data outside of the Merchant's point of sale operating system by utilizing Greenlight Payments SMARTaccept™ proprietary embedded server hosted within a PCI-PTS 3.0 approved payment device.

In addition, the integration method to SMARTaccept™ does not require application developers to include any 3rd party SDK's within their environment. Application developers can easily establish a TCP/IP Socket connection and send the request using XML tags and values using non-sensitive data such as an amount, transaction type, and a unique identifier, and wait for the results of the payment after SMARTaccept™ has worked its magic with the Greenlight Payments Host.

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Communication Method

The SMARTaccept™ API accepts TCP/IP messages using a Socket Connection and XML tags and values. The application integrating to SMARTaccept™ should include a configuration parameter for both the IP Address and Port of the SMARTaccept™ device. If you need any assistance with how to create a socket connection in your specific programming environment, please contact Greenlight Payments Support Team.

Request Message XML Start and End Tags

Start Tag	End Tag	Description
<TransRequest>	**</TransRequest>**	This start and end tag must be used to encapsulate request messages containing a TransactionType of 1 (Sale), 2 (Refund), 3 (Void), 4 (Add Value), or 5 (Balance Inquiry)
<Status>	**</Status>**	This start and end tag can be used to check the Status of the Greenlight Device.
<CCTDisplayMsgRequest>	**</CCTDisplayMsgRequest>**	This start and end tag can be used to display custom messages on the Greenlight Device.
<CCTClearMessageRequest>	**</CCTClearMessageRequest>**	This start and end tag can be used to display custom messages on the Greenlight Device.
<QueryRequest>	**</QueryRequest>**	This start and end tag can be used to Query a transaction or a batch.
<AdjustTransReq>	**</AdjustTransReq>**	This start and end tag can be used to adjust a transaction amount prior to the batch settling. For example, to adjust the total inclusive of a tip in a restaurant environment.

Response Message XML Start and End Tags

XML Start Tags	XML End Tags	Description
<TransResponse>	**</TransResponse>**	This start and end tag will be returned with the encapsulated response message after performing a TransactionType of 1 (Sale), 2 (Refund), 3 (Void), 4 (Add Value), or 5 (Balance Inquiry)
<Status>	**</Status>**	This start and end tag will be returned with the encapsulated response message after performing a Status request of the SMARTaccept™ Device.
<CCTDisplayMessageResponse>	**</CCTDisplayMessageResponse>**	This start and end tag will be returned with the encapsulated response message after performing a CCTDisplayMsgRequest operation.
<CCTClearMessageResponse>	**</CCTClearMessageResponse>**	This start and end tag will be returned with the encapsulated response message after performing a CCTClearMessageRequest operation.
<QueryResponse>	**</QueryResponse>**	This start and end tag will be returned with the encapsulated response message after performing a QueryRequest operation.
<AdjustTransRes>	**</AdjustTransRes>**	This start and end tag will be returned with the encapsulated response message after performing a AdjustTransReq operation

Request Fields

XML Tag	Acceptable Values	Format	Requirement	Description
<TransactionType>	• 1 (Sale) • 2 (Refund) • 3 (Void) • 4 (Add Value) • 5 (Balance Inquiry) • Reprint	string	Mandatory	This request field should contain the transaction type value being requested by the POS.
<Amount>	XXXXX.XX	string	Conditional	This request field should contain the base transaction amount. If the amount returned in the response is more or less than what was initially requested, the Application must evaluate the CashBack, Tip, and Balance response fields to determine if the amount was adjusted or partially approved by the card issuer.
<ClerkID>	6 N	string	Optional	A 6 character numeric field identifying the clerk/ cashier ID initiating the transaction at the point of sale.
<Date>	MMDDYYYY	string	Mandatory	The local date of the transaction initiated by the POS.
<Time>	HHMMSS	string	Mandatory	The local time of the transaction initiated by the POS.
<InvoiceNo>	6 AN	string	Optional	A six character unique transaction sequence number generated by the POS which has to be submitted for all authorization requests. This field is echoed back in the response which helps in matching requests and responses.
<PONumber>	6 N	string	Optional	An eight character field containing a Purchase Order Number.
<OriTransID>	14 AN	string	Conditional	This 14 character field represents the transaction Identifier used to link a Refund or a Void transaction.
<PrintEnable>	1 N	string	Optional	This one character field will let the SMARTaccept™ Device know whether to print the receipt or not.
<Status>	Terminal	string	Conditional	The value required to specify the status of the SMARTaccept™ terminal.
<MessageLine2>	AN	string	Optional	Custom message line that can be used to display a message on the SMARTaccept™ device.
<MessageLine3>	AN	string	Optional	Additional Custom message line
<MessageLine4>	AN	string	Optional	Additional Custom message line
<MessageLine5>	AN	string	Optional	Additional Custom message line
<MessageLine6>	AN	string	Optional	Additional Custom message line
<MessageLine7>	AN	string	Optional	Additional Custom message line
<MessageLine8>	AN	string	Optional	Additional Custom message line
<Timeout>	30	string	Optional	The timeout message of the custom message displayed on the device.

Response Fields

XML Tag	Format	Description
<ResponseMsg>	"Approved" or "Declined"	The ultimate result of the transaction.
<ResponseCode>	string	If a transaction was approved, the Bank Approval Code will be included in this response field; otherwise if it was declined, it will return a decline message or the reason for the failure.
<CardName>	string	This field contains the customer name, and may or may not be returned in the transaction response depending on the type of transaction.
<CardNo>	4 N	The Last 4 digits of the card number.
<CardType>	• credit • debit • gift	The type of card that was processed by the SMARTaccept™ device. Certain card types can be disabled within the SMARTaccept device per the Merchant's request before deployment, however, Application Developers are recommended to accommodate for all possible values.
<EntryMode>	• S (Swiped) • C (Chip) • M (Manual)	The entry mode returned by the SMARTaccept™ device.
<Expiry>	4 N	This field contains the expiration date of the card. Please note that many Federal and State Consumer Privacy Laws prohibit printing the expiration date on the receipt therefore it is recommended that developers do not include this data element on any receipts.
<Amount>	XXXXX.XX	This field contains the total amount of the transaction that was processed including the Cash Back, and Tip amounts if applicable.
<CashBack>	8 N	This field contains the amount of the cash back that was given to the cardholder at the time of the transaction by the clerk.
<TransID>	14 AN	This 14-character field represents the transaction Identifier returned in the original authorization response message.
<Balance>	XXXXX.XX	For credit card transactions, this response field indicates that the bank partially approved the transaction and that a balance is due. If the cardholder is unable to pay the remainder, the clerk must immediately void out the transaction. For Gift Card transactions, the balance remaining on the card is returned in this response field.
<InvoiceNo>	6 AN	The invoice number echoed back from the initial request.
<BatchNumber>	6 AN	
<Status>	"OK" or "DOWN"	The status of the terminal returned after a status check has been requested. If no value is received from the SMARTaccept™ device, please check the internet connection to the machine and the POS.
<ApplicationLabel>	string	Application Label. Only returned in chip card transactions.
<AppPrefName>	string	Application Preferred Name. Only returned in chip card transactions.
<CrdHldrName>	string	Card Holder Name. Only returned in chip card transactions.
<AppStartDate>	string	Application Effective Date. Only returned in chip card transactions.
<AppExpDate>	string	Application Expiration Date. Only returned in chip card transactions.
<AppID>	string	Application Identifier. Only returned in chip card transactions.
<AppCrypto>	string	Application Cryptogram. Only returned in chip card transactions.
<PANSeqNo>	string	Application PAN sequence number. Only returned in chip card transactions.
<SequenceNo>	string	Sequence number. Only returned in chip card transactions.
<TVR>	string	Terminal Verification Result. Only returned in chip card transactions.
<XnStatusInfo>	string	Transaction Status Information. Only returned in chip card transactions.
<AppXncnt>	string	Application Transaction Counter. Only returned in chip card transactions.
<AuthRespCode>	string	Auth Response Code. Only returned in chip card transactions.
<CryptoIData>	string	Cryptogram Information Data. Only returned in chip card transactions.
<IssuerAppData>	string	Issuer Application Data. Only returned in chip card transactions.

Request Samples

Sale Request

```
<TransRequest>
        <TransactionType>1</TransactionType>
        <Amount>10.00</Amount>
        <ClerkID>1</ClerkID>
        <Date>MMDDYYYY</Date>
        <Time>HHMMSS</Time>
        <InvoiceNo>000001</InvoiceNo>
        <PONumber>000001</PONumber>
        <OriTransID>123456789012345</OriTransID>
        <PrintEnable>1</PrintEnable>
</TransRequest>
```

Refund Request

```
<TransRequest>
        <TransactionType>2</TransactionType>
        <Amount>10.00</Amount>
        <ClerkID>1</ClerkID>
        <Date>MMDDYYYY</Date>
        <Time>HHMMSS</Time>
        <InvoiceNo>000001</InvoiceNo>
        <PONumber>000001</PONumber>
        <OriTransID>123456789012345</OriTransID>
        <PrintEnable>1</PrintEnable>
</TransRequest>
```

Void Request

```
<TransRequest>
        <TransactionType>3</TransactionType>
        <Amount>10.00</Amount>
        <ClerkID>1</ClerkID>
        <Date>MMDDYYYY</Date>
        <Time>HHMMSS</Time>
        <InvoiceNo>000001</InvoiceNo>
        <PONumber>000001</PONumber>
        <OriTransID>123456789012345</OriTransID>
        <PrintEnable>1</PrintEnable>
</TransRequest>
```

Add Value Request

```
<TransRequest>
        <TransactionType>4</TransactionType>
        <Amount>10.00</Amount>
        <ClerkID>1</ClerkID>
        <Date>MMDDYYYY</Date>
        <Time>HHMMSS</Time>
        <InvoiceNo>000001</InvoiceNo>
        <PONumber>000001</PONumber>
        <OriTransID>123456789012345</OriTransID>
        <PrintEnable>1</PrintEnable>
</TransRequest>
```

Balance Inquiry Request

```
<TransRequest>
        <TransactionType>5</TransactionType>
        <Amount>10.00</Amount>
        <ClerkID>1</ClerkID>
        <Date>MMDDYYYY</Date>
        <Time>HHMMSS</Time>
        <InvoiceNo>000001</InvoiceNo>
        <PONumber>000001</PONumber>
        <OriTransID>123456789012345</OriTransID>
        <PrintEnable>1</PrintEnable>
</TransRequest>
```

Adjust Request

```
<AdjustTransReq>
        <Amount>10.00</Amount>
        <Date>MMDDYYYY</Date>
        <Time>HHMM</Time>
        <ClerkID>1</ClerkID>
        <OriTransID>123456789012345</OriTransID>
        <PrintEnable>0</PrintEnable>
</ AdjustTransReq >
```

Terminal Status Request

```
<Status>Terminal</Status>
```

Query Request by Transaction ID

```
        <QueryRequest>
                <Action>qts</Action>
                <TerminalCode>InsertTerminalid</TerminalCode>
                <TransactionID>0000004V002500</TransactionID>
        </QueryRequest>
```

Query Request by Invoice Number

```
<QueryRequest>
        <Action>qts</Action>
        <TerminalCode>InsertTerminalid</TerminalCode>
        <InvoiceNo>75732422</InvoiceNo>
</QueryRequest>
```

Query Request by Batch Number

```
<QueryRequest>
        <Action>qts</Action>
        <TerminalCode>InsertTerminalid</TerminalCode>
        <BatchNumber>3</BatchNumber>
</QueryRequest>
```

Query Request for “Open Batch Summary”

```
<QueryRequest>
        <Action>qts</Action>
        <TerminalCode>InsertTerminalid</TerminalCode>
</QueryRequest>
```

Display a Custom Message on the Screen

```
<CCTDisplayMsgRequest>
        <MessageLine2>Message Line2</MessageLine2>
        <MessageLine3>Message Line3</MessageLine3>
        <MessageLine4>Message Line4</MessageLine4>
        <MessageLine5>Message Line5</MessageLine5>
        <MessageLine6>Message Line6</MessageLine6>
        <MessageLine7>Message Line7</MessageLine7>
        <MessageLine8>Message Line8</MessageLine8>
        <ClerkID>1234</ClerkID>
        <Timeout>30</Timeout>
</CCTDisplayMsgRequest>
```

Clear a Custom Message on the screen

```
<CCTClearMessageRequest>
        <ClerkID>1234</ClerkID>
</CCTClearMessageRequest>
```

Reprint Receipt Request

```
<TransactionType>Reprint</TransactionType>
<OriTransID>123456789012345</OriTransID>
```