API – PayTrans_POS Terminal Communication – SSL & Dial Up

:

Public - Security Level 0

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REVISION HISTORY

Date	Version	Author(s)	Comments
5/6/16	2.0	C. Meaney	Formatting updates

CONFIDENTIALITY STATEMENT

Contents

Communication Overview

This reference document outlines the use of an SSL socket or dial-up connection to communicate real-time transactions to EPX using the XML message format. The format of the string will be in-line with the VISA 2nd Generation Terminal Message, where the message refers to a data frame starting with an STX, followed by the transaction request string, and terminated with an ETX followed by an LRC.

The total message size cannot exceed 4K bytes of data (including the frame characters). Messages exceeding 4K bytes of data are ignored and receive no response. Refer to the *EPX POS Terminal Communications Specifications* document for more information about this format.

The following represents the format for the data frame:

```
[STX] MESSAGE [ETX] [LRC]
```

EPX Message Request and Response format

The format of the request message within the terminal message string follows the EPX specification for a Real-Time XML string. Both the request and response are sent and received in the XML format. An example of the EPX XML format prior to escaping is below.

NOTE: The Merchant Authentication Code or MAC is a required field for both request types, and must be included within the XML request. For more information on the MAC value please refer to the EPX Data Dictionary. **If the MAC is not sent with the XML request, the transaction is ignored and a response does not occur.

XML Request

```
<DETAIL CUST_NBR='1234' MERCH_NBR='123456' DBA_NBR='1' TERMINAL_NBR='1'>
<TRAN_TYPE>CCR1</TRAN_TYPE>
<ACCOUNT_NBR>1111</ACCOUNT_NBR>
<TRACK_DATA>%B4111111111111111^CARD/VISA
^49121010000000000000</TRACK_DATA>
<CARD_ENT_METH>H</CARD_ENT_METH>
<BATCH_ID>2015080301</BATCH_ID>
<MAC>i4qUSErQ3SqTJxYost7/7I51AR35sfus</MAC>
<TRAN_NBR>3</TRAN_NBR>
<AMOUNT>1.00</AMOUNT>
<E2EE>0</E2EE>
<FIRST_NAME>EPX</FIRST_NAME>
<LAST_NAME>Test</LAST_NAME>
</DETAIL>
```

XML Response

```
<RESPONSE>
<FIELDS>
<FIELD KEY="MSG_VERSION">003</FIELD>
<FIELD KEY="CUST_NBR”>1234</FIELD>
<FIELD KEY="MERCH_NBR">123456</FIELD>
<FIELD KEY="DBA_NBR">1</FIELD>
<FIELD KEY="TERMINAL_NBR">1</FIELD>
<FIELD KEY="TRAN_TYPE">CCR1</FIELD>
<FIELD KEY="BATCH_ID">2015080301</FIELD>
<FIELD KEY="TRAN_NBR">3</FIELD>
<FIELD KEY="LOCAL_DATE">080315</FIELD>
<FIELD KEY="LOCAL_TIME">125610</FIELD>
<FIELD KEY="AUTH_GUID">09KDWMK950XPMEPP8WQ</FIELD>
<FIELD KEY="AUTH_RESP">00</FIELD>
<FIELD KEY="AUTH_CODE">020106</FIELD>
<FIELD KEY="AUTH_AVS"> </FIELD>
<FIELD KEY="AUTH_RESP_TEXT">APPROVAL 020106</FIELD>
<FIELD KEY="AUTH_CARD_TYPE">V</FIELD>
<FIELD KEY="AUTH_TRAN_DATE_GMT">08/03/2015 06:56:09 PM</FIELD>
<FIELD KEY="AUTH_AMOUNT_REQUESTED">1.0000</FIELD>
<FIELD KEY="AUTH_AMOUNT">1.00</FIELD>
<FIELD KEY="AUTH_CURRENCY_CODE">840</FIELD>
<FIELDKEY="NETWORK_RESPONSE">00</FIELD>
<FIELD KEY="AUTH_MASKED_ACCOUNT_NBR">************1111</FIELD>
</FIELDS>
</RESPONSE>
```

Communication Information

For information about communicating with the EPX test environment please contact the EPX Integration department.

NOTE: The Production connection information will be provided upon completion of the certification process.