



Transaction Specs – Enhanced / Level II & III Data

EPX Confidential - Security Level 1

March 2022

REVISION HISTORY

Date	Version	Author(s)	Comments
3/25/2022	1.0	M. Billips	Initial version

CONFIDENTIALITY STATEMENT

This document contains confidential and proprietary information that belongs exclusively to Electronic Payment Exchange (EPX). Receipt of this document imposes the obligation on the recipient to protect the information from loss or disclosure to other parties.

This publication may not be reproduced or distributed for any purpose without the written permission of EPX.

© 2022 Electronic Payment Exchange. All rights reserved.

Contents

Introduction.....	1
About this guide.....	1
Related documentation	1
Enhanced / Level II & III Data	2
Overview	2
BRIC Lifetime.....	2
Field types.....	2
Transaction Types.....	2
Level II Data	3
Overview	3
Sale (CCx1) Level II Data - with Tax.....	3
XML	3
HTTPS.....	4
Authorization Only (CCx2) Level II Data - with Tax.....	4
XML	4
HTTPS.....	4
Capture Only (CCx4) Level II Data - with Tax.....	4
XML	5
HTTPS.....	5
Sale (CCx1) Level II Data – Tax Exempt	5
XML	5
HTTPS.....	6
Authorization Only (CCx2) Level II Data – Tax Exempt	6
XML	6
HTTPS.....	6
Capture Only (CCx4) Level II Data – Tax Exempt	7
XML	7
HTTPS.....	7
Enhanced / Level III Data	8
Overview	8
Visa Transaction Samples.....	8
Visa - Sale (CCx1) with Enhanced / Level III Data	8

XML	8
HTTPS	9
Visa - Authorization Only (CCx2) with Enhanced / Level III Data	9
XML	9
HTTPS	10
Visa Capture Only (CCx4) with Enhanced / Level III Data	10
XML	10
HTTPS	11
MasterCard Transaction Samples	11
MasterCard - Sale (CCx1) with Enhanced / Level III Data	11
XML	11
HTTPS	12
MasterCard - Authorization Only (CCx2) with Enhanced / Level III Data	12
XML	12
HTTPS	13
MasterCard Capture Only (CCx4) with Enhanced / Level III Data	13
XML	13
HTTPS	13
Discover Transaction Samples	14
Discover - Sale (CCx1) with Enhanced Data	14
XML	14
HTTPS	14
American Express Transaction Samples	15
American Express - Sale (CCx1) with Enhanced Data	15
XML	15
HTTPS	15

Introduction

About this guide

This guide provides detailed information on how to send transaction requests containing Enhanced / Level II & III data. The ENHANCED_TLV tag is used to supply Enhanced / Level III data elements with Sale (CCX1), Authorization Only (CCx2), and Capture Only (CCx4) transactions. The sections that follow provide examples of enhanced / Level II and Level III transactions.

Related documentation

Reference the respective *EPX Data Dictionary – Enhanced / Level II & III Data* for information surrounding TLV format and Enhanced / Level II & III data elements.

For additional information about request and response fields, refer to the *EPX Data Dictionary*.

Enhanced / Level II & III Data

Overview

The EPX platform supports enhanced / level II & III data based on Network requirements. We offer the ability for the client application to submit enhanced / level II & III data with Sale (CCx1), Authorization Only (CCx2), and Capture Only (CCx4) transactions requests.

BRIC Lifetime

The EPX BRIC (GUID/Token) can be used to create new transactions within the EPX system, it is important to know how long the value will be available for this use. BRICs received with the response of a financial transaction, such as an account verification, authorization, or sale will only be accessible for 13 months from creation. This limitation applies to all financial BRICs by default. The COF_PERIOD tag offers the ability to extend the lifeline of the financial BRIC for up to 24 months, please reference the tag definition in the EPX Data Dictionary.

For those merchants who need the BRIC availability to exceed these limitations, the BRIC Storage transaction is available and will create BRICs that will be accessible indefinitely.

Field types

Note the following about mandatory and optional fields:

- Mandatory fields are shown in **bold** and need to be submitted with the transaction request to ensure a successful response.
- Optional fields can be omitted; however, optional fields might still be used during the transaction. For example, if optional AVS fields are provided, they are validated and an AVS response is sent back.

Transaction Types

The transaction samples in the following chapters contain the TRAN_TYPE field values of CCx, where the "x" indicates the industry type (Retail, MOTO, Ecommerce). Reference the respective industry-specific EPX Transaction Specs for more details and the EPX Data Dictionary for tag definitions.

Level II Data

Overview

Level II is achieved by supplying the tax exempt status and tax amount with the transaction requests. This is accomplished by including the TAX_EXEMPT tag with a value of "Y" or "N" along with the TAX_AMT tag to reference the portion of the AMOUNT that is tax. For example, if your purchase amount is \$10.00 with \$1.75 tax, the AMOUNT tag would contain "11.75" and the TAX_AMT tag would contain "1.75".

For tax exempt, the transaction request would contain the TAX_EXEMPT tag with a value "Y" and the TAX_AMT tag with a value of "0.00".

Level II data can be supplied with any of the following transaction types.

- CCx1 – Sale (authorization & capture)
- CCx2 – Authorization Only
- CCx4 – Capture Only

Sale (CCx1) Level II Data - with Tax

This is a sample of a Level II Sale transaction with tax containing the TAX_EXEMPT and TAX_AMT tags.

XML

```
<DETAIL cust_nbr="1234" merch_nbr="1234567" dba_nbr="1" terminal_nbr="1">
<TRAN_TYPE>CCx1</TRAN_TYPE>
<AMOUNT>11.75</AMOUNT>
<TAX_EXEMPT>N</TAX_EXEMPT>
<TAX_AMT>1.75</TAX_AMT>
<BATCH_ID>220316</BATCH_ID>
<TRAN_NBR>1</TRAN_NBR>
<ACCOUNT_NBR>4111111111111111</ACCOUNT_NBR>
<EXP_DATE>4912</EXP_DATE>
<CARD_ENT_METH>E</CARD_ENT_METH>
<INDUSTRY_TYPE>E</INDUSTRY_TYPE>
<INVOICE_NBR>563992457</INVOICE_NBR>
<CVV2>123</CVV2>
<FIRST_NAME>Teddy</FIRST_NAME>
<LAST_NAME>Tester</LAST_NAME>
<ADDRESS>123 Main St</ADDRESS>
<CITY>Wilmington</CITY>
<STATE>DE</STATE>
<ZIP_CODE>12345</ZIP_CODE>
<USER_DATA_1>Level II Data</USER_DATA>
</DETAIL>
```

HTTPS

```
CUST_NBR=1234&MERCH_NBR=1234567&DBA_NBR=1&TERMINAL_NBR=1&TRAN_TYPE=CCx1&AMOUNT=11.75&TAX_EXEMPT=N&TAX_AMT=1.75&BATCH_ID=220316&TRAN_NBR=1&ACCOUNT_NBR=41111111111111&EXP_DATE=4912&CARD_ENT_METH=E&INDUSTRY_TYPE=E&INVOICE_NBR=563992457&CVV2=123&FIRST_NAME=Teddy&LAST_NAME=Tester&ADDRESS=123+Main+Street&CITY=Wilmington&STATE=DE&ZIP_CODE=12345&USER_DATA_1=Level II Data
```

Authorization Only (CCx2) Level II Data - with Tax

This is a sample of a Level II Authorization Only transaction with tax containing the TAX_EXEMPT and TAX_AMT tags.

XML

```
<DETAIL cust_nbr="1234" merch_nbr="1234567" dba_nbr="1" terminal_nbr="1">
<TRAN_TYPE>CCx2</TRAN_TYPE>
<AMOUNT>11.75</AMOUNT>
<TAX_EXEMPT>N</TAX_EXEMPT>
<TAX_AMT>1.75</TAX_AMT>
<BATCH_ID>220316</BATCH_ID>
<TRAN_NBR>2</TRAN_NBR>
<ACCOUNT_NBR>4111111111111111</ACCOUNT_NBR>
<EXP_DATE>4912</EXP_DATE>
<CARD_ENT_METH>E</CARD_ENT_METH>
<INDUSTRY_TYPE>E</INDUSTRY_TYPE>
<ORDER_NBR>353698225</ORDER_NBR>
<CVV2>123</CVV2>
<FIRST_NAME>Teddy</FIRST_NAME>
<LAST_NAME>Tester</LAST_NAME>
<ADDRESS>123 Main St</ADDRESS>
<CITY>Wilmington</CITY>
<STATE>DE</STATE>
<ZIP_CODE>12345</ZIP_CODE>
<USER_DATA_1>Level II Data</USER_DATA>
</DETAIL>
```

HTTPS

```
CUST_NBR=1234&MERCH_NBR=1234567&DBA_NBR=1&TERMINAL_NBR=1&TRAN_TYPE=CCx2&AMOUNT=11.75&TAX_EXEMPT=N&TAX_AMT=1.75&BATCH_ID=220316&TRAN_NBR=2&ACCOUNT_NBR=4111111111111111&EXP_DATE=4912&CARD_ENT_METH=E&INDUSTRY_TYPE=E&ORDER_NBR=353698225&CVV2=123&FIRST_NAME=Teddy&LAST_NAME=Tester&ADDRESS=123+Main+Street&CITY=Wilmington&STATE=DE&ZIP_CODE=12345&USER_DATA_1=Level II Data
```

Capture Only (CCx4) Level II Data - with Tax

This is a sample of a Level II BRIC based Authorization Only transaction with tax containing the TAX_EXEMPT and TAX_AMT tags.

Note: If the TAX_AMT and TAX_EXEMPT tags are included with the CCx2 authorization only, there is no need to supply with the CCx4 capture only. If these tags are included with both the CCx2 authorization only and CCx4 capture only, the values from the CCx4 capture only will be used.

XML

```
<DETAIL cust_nbr="1234" merch_nbr="1234567" dba_nbr="1" terminal_nbr="1">
<TRAN_TYPE>CCx4</TRAN_TYPE>
<AMOUNT>11.75</AMOUNT>
<TAX_EXEMPT>N</TAX_EXEMPT>
<TAX_AMT>1.75</TAX_AMT>
<BATCH_ID>220316</BATCH_ID>
<TRAN_NBR>3</TRAN_NBR>
<ORIG_AUTH_GUID>09LJF61UFR3ZZGENRBW</ORIG_AUTH_GUID>
<CARD_ENT_METH>Z</CARD_ENT_METH>
<INDUSTRY_TYPE>E</INDUSTRY_TYPE>
<REFERENCE_NBR>6677253142</REFERENCE_NBR>
<USER_DATA_1>Level II Data</USER_DATA_1>
</DETAIL>
```

HTTPS

```
CUST_NBR=1234&MERCH_NBR=1234567&DBA_NBR=1&TERMINAL_NBR=1&TRAN_TYPE=CCx4&AMOUNT=11.75&TAX_EXEMPT=N&TAX_AMT=1.75&BATCH_ID=220316&TRAN_NBR=3&ORIG_AUTH_GUID=09LJF61UFR3ZZGENRBW&CARD_ENT_METH=Z&INDUSTRY_TYPE=E&REFERENCE_NBR=6677253142&USER_DATA_1=Level II Data
```

Sale (CCx1) Level II Data – Tax Exempt

This is a sample of a Level II Tax Exempt Sale transaction containing the TAX_EXEMPT and TAX_AMT tags.

XML

```
<DETAIL cust_nbr="1234" merch_nbr="1234567" dba_nbr="1" terminal_nbr="1">
<TRAN_TYPE>CCx1</TRAN_TYPE>
<AMOUNT>10.00</AMOUNT>
<TAX_EXEMPT>Y</TAX_EXEMPT>
<TAX_AMT>0.00</TAX_AMT>
<BATCH_ID>220316</BATCH_ID>
<TRAN_NBR>1</TRAN_NBR>
<ACCOUNT_NBR>4111111111111111</ACCOUNT_NBR>
<EXP_DATE>4912</EXP_DATE>
<CARD_ENT_METH>E</CARD_ENT_METH>
<INDUSTRY_TYPE>E</INDUSTRY_TYPE>
<INVOICE_NBR>563992457</INVOICE_NBR>
<CVV2>123</CVV2>
<FIRST_NAME>Teddy</FIRST_NAME>
<LAST_NAME>Tester</LAST_NAME>
<ADDRESS>123 Main St</ADDRESS>
```

```

<CITY>Wilmington</CITY>
<STATE>DE</STATE>
<ZIP_CODE>12345</ZIP_CODE>
<USER_DATA_1>Level II Data</USER_DATA>
</DETAIL>

```

HTTPS

```

CUST_NBR=1234&MERCH_NBR=1234567&DBA_NBR=1&TERMINAL_NBR=1&TRAN_TYPE=CCx1&AMOUNT=10.00&TAX_EXEMPT=Y&TAX_AMT=0.00&BATCH_ID=220316&TRAN_NBR=1&ACCOUNT_NBR=4111111111111111&EXP_DATE=4912&CARD_ENT_METH=E&INDUSTRY_TYPE=E&INVOICE_NBR=563992457&CVV2=123&FIRST_NAME=Teddy&LAST_NAME=Tester&ADDRESS=123+Main+Street&CITY=Wilmington&STATE=DE&ZIP_CODE=12345&USER_DATA_1=Level II Data

```

Authorization Only (CCx2) Level II Data – Tax Exempt

This is a sample of a Level II Tax Exempt Authorization Only transaction containing the TAX_EXEMPT and TAX_AMT tags.

XML

```

<DETAIL cust_nbr="1234" merch_nbr="1234567" dba_nbr="1" terminal_nbr="1">
  <TRAN_TYPE>CCx2</TRAN_TYPE>
  <AMOUNT>10.00</AMOUNT>
  <TAX_EXEMPT>Y</TAX_EXEMPT>
  <TAX_AMT>0.00</TAX_AMT>
  <BATCH_ID>220316</BATCH_ID>
  <TRAN_NBR>2</TRAN_NBR>
  <ACCOUNT_NBR>4111111111111111</ACCOUNT_NBR>
  <EXP_DATE>4912</EXP_DATE>
  <CARD_ENT_METH>E</CARD_ENT_METH>
  <INDUSTRY_TYPE>E</INDUSTRY_TYPE>
  <ORDER_NBR>353698225</ORDER_NBR>
  <CVV2>123</CVV2>
  <FIRST_NAME>Teddy</FIRST_NAME>
  <LAST_NAME>Tester</LAST_NAME>
  <ADDRESS>123 Main St</ADDRESS>
  <CITY>Wilmington</CITY>
  <STATE>DE</STATE>
  <ZIP_CODE>12345</ZIP_CODE>
  <USER_DATA_1>Level II Data</USER_DATA>
</DETAIL>

```

HTTPS

```

CUST_NBR=1234&MERCH_NBR=1234567&DBA_NBR=1&TERMINAL_NBR=1&TRAN_TYPE=CCx2&AMOUNT=10.00&TAX_EXEMPT=Y&TAX_AMT=0.00&BATCH_ID=220316&TRAN_NBR=2&ACCOUNT_NBR=4111111111111111&EXP_DATE=4912&CARD_ENT_METH=E&INDUSTRY_TYPE=E&ORDER_NBR=353698225&CVV2=123&FIRST_NAME=Teddy&LAST_NAME=Tester&ADDRESS=123+Main+Street&CITY=Wilmington&STATE=DE&ZIP_CODE=12345&USER_DATA_1=Level II Data

```

Capture Only (CCx4) Level II Data – Tax Exempt

This is a sample of a Level II Tax Exempt BRIC based Capture Only transaction containing the TAX_EXEMPT and TAX_AMT tags.

Note: If the TAX_AMT and TAX_EXEMPT tags are included with the CCx2 authorization only, there is no need to supply with the CCx4 capture only. If these tags are included with both the CCx2 authorization only and CCx4 capture only, the values from the CCx4 capture only will be used.

XML

```
<DETAIL cust_nbr="1234" merch_nbr="1234567" dba_nbr="1" terminal_nbr="1">
<TRAN_TYPE>CCx4</TRAN_TYPE>
<AMOUNT>10.00</AMOUNT>
<TAX_EXEMPT>Y</TAX_EXEMPT>
<TAX_AMT>0.00</TAX_AMT>
<BATCH_ID>220316</BATCH_ID>
<TRAN_NBR>3</TRAN_NBR>
<ORIG_AUTH_GUID>09LJF61UFR3ZZGENRBW</ORIG_AUTH_GUID>
<CARD_ENT_METH>Z</CARD_ENT_METH>
<INDUSTRY_TYPE>E</INDUSTRY_TYPE>
<REFERENCE_NBR>6677253142</REFERENCE_NBR>
<USER_DATA_1>Level II Data</USER_DATA>
</DETAIL>
```

HTTPS

```
CUST_NBR=1234&MERCH_NBR=1234567&DBA_NBR=1&TERMINAL_NBR=1&TRAN_TYPE=CCx4&AMOUNT=10.00&TAX_EXEMPT=Y&TAX_AMT=0.00&BATCH_ID=220316&TRAN_NBR=3&ORIG_AUTH_GUID=09LJF61UFR3ZZGENRBW&CARD_ENT_METH=Z&INDUSTRY_TYPE=E&REFERENCE_NBR=6677253142&USER_DATA_1=Level II Data
```

Enhanced / Level III Data

Overview

EPX offers the ability to submit Enhanced Data and Level III Data with transaction requests by use of the ENHANCED_TLV tag in TLV format. The ENHANCED_TLV tag will allow for multiple line items to be included within a single transaction request. The ENHANCED_DATA tag along with TLV set tags and TLV sub tags are outlined in the *EPX Data Dictionary – Enhanced / Level II & III Data*. This chapter provides transaction samples for all card brands that support enhanced data and level III data.

Important to Note:

- The TAX_AMT and TAX_EXEMPT API tags are required to be supplied via API calls, and are not part of the ENHANCED_TLV data string.
- All of the counts and amounts indicated within the Enhanced / Level III summary data, line item data, and TAX_AMT tag must be properly calculated and the total amount to be populated in the AMOUNT API tag.
- The TLV tags must contain valid (real) data. Tags that are populated with values such as all zeroes or all spaces will not be deemed valid, and will not be included with the transactions to the Networks.

Enhanced / Level III data can be supplied with any of the following transaction types.

- CCx1 – Sale (authorization & capture)
- CCx2 – Authorization Only
- CCx4 – Capture Only

Visa Transaction Samples

Visa - Sale (CCx1) with Enhanced / Level III Data

This is a sample of a Visa Sale transaction containing the TAX_EXEMPT and TAX_AMT tags along with Enhanced / Level III summary data and one line item supplied in the ENHANCED_TLV tag.

XML

```
<DETAIL cust_nbr="1234" merch_nbr="1234567" dba_nbr="1" terminal_nbr="1">
<TRAN_TYPE>CCx1</TRAN_TYPE>
<AMOUNT>719.25</AMOUNT>
<TAX_EXEMPT>N</TAX_EXEMPT>
<TAX_AMT>19.25</TAX_AMT>
```

```

<BATCH_ID>220314</BATCH_ID>
<TRAN_NBR>1</TRAN_NBR>
<ACCOUNT_NBR>411111111111111</ACCOUNT_NBR>
<EXP_DATE>4912</EXP_DATE>
<CARD_ENT_METH>E</CARD_ENT_METH>
<INDUSTRY_TYPE>E</INDUSTRY_TYPE>
<ENHANCED_TLV>0010006VISA_G00200300010010CUST-CODE7011000603142200300920010008COM
CODE0020009ITEM-DESC0030009PROD
CODE004000170050004EACH0060006100.000100006700.00</ENHANCED_TLV>
<CVV2>123</CVV2>
<FIRST_NAME>Teddy</FIRST_NAME>
<LAST_NAME>Tester</LAST_NAME>
<ADDRESS>123 Main St</ADDRESS>
<CITY>Wilmington</CITY>
<STATE>DE</STATE>
<ZIP_CODE>12345</ZIP_CODE>
<USER_DATA_1>Visa Level III Data</USER_DATA>
</DETAIL>

```

HTTPS

```

CUST_NBR=1234&MERCH_NBR=1234567&DBA_NBR=1&TERMINAL_NBR=1&TRAN_TYPE=CCx1&AMOUNT=719
.25&TAX_EXEMPT=N&TAX_AMT=19.75&BATCH_ID=220314&TRAN_NBR=1&ACCOUNT_NBR=411111111111
1111&EXP_DATE=4912&CARD_ENT_METH=E&INDUSTRY_TYPE=E&ENHANCED_TLV=0010006VISA_G00200
300010010CUST-CODE7011000603142200300920010008COM CODE0020009ITEM-DESC0030009PROD
CODE004000170050004EACH0060006100.000100006700.00&CVV2=123&FIRST_NAME=Teddy&LAST_N
AME=Tester&ADDRESS=123+Main+Street&CITY=Wilmington&STATE=DE&ZIP_CODE=12345&USER_DA
TA_1=Visa Level III Data

```

Visa - Authorization Only (CCx2) with Enhanced / Level III Data

This is a sample of a Visa Authorization Only transaction containing the TAX_EXEMPT and TAX_AMT tags along with Enhanced / Level III summary data and two line items supplied in the ENHANCED_TLV tag.

XML

```

<DETAIL cust_nbr="1234" merch_nbr="1234567" dba_nbr="1" terminal_nbr="1">
<TRAN_TYPE>CCx2</TRAN_TYPE>
<AMOUNT>1055.50</AMOUNT>
<TAX_EXEMPT>N</TAX_EXEMPT>
<TAX_AMT>32.50</TAX_AMT>
<BATCH_ID>220314</BATCH_ID>
<TRAN_NBR>2</TRAN_NBR>
<ACCOUNT_NBR>411111111111111</ACCOUNT_NBR>
<EXP_DATE>4912</EXP_DATE>
<CARD_ENT_METH>E</CARD_ENT_METH>
<INDUSTRY_TYPE>E</INDUSTRY_TYPE>
<ENHANCED_TLV>0010006VISA_G00200520010010CUST
CODE7005000523.000090003840011000603142200300920010008COM-
CODE0020009ITEM,DESC0030009PROD-
CODE004000130050004EACH0060006300.000100006600.0000300910010007COMCODE0020009ITEM-
DESC0030009PROD, CODE004000140050004EACH0060006100.000100006400.00</ENHANCED_TLV>
<CVV2>123</CVV2>

```

```

<FIRST_NAME>Teddy</FIRST_NAME>
<LAST_NAME>Tester</LAST_NAME>
<ADDRESS>123 Main St</ADDRESS>
<CITY>Wilmington</CITY>
<STATE>DE</STATE>
<ZIP_CODE>12345</ZIP_CODE>
<USER_DATA_1>Visa Level III Data Mult Line Items</USER_DATA>
</DETAIL>

```

HTTPS

```

CUST_NBR=1234&MERCH_NBR=1234567&DBA_NBR=1&TERMINAL_NBR=1&TRAN_TYPE=CCx2&AMOUNT=105
5.50&TAX_EXEMPT=N&TAX_AMT=32.50&BATCH_ID=220314&TRAN_NBR=2&ACCOUNT_NBR=4111111111
11111&EXP_DATE=4912&CARD_ENT_METH=E&INDUSTRY_TYPE=E&ENHANCED_TLV=0010006VISA_G0020
0520010010CUST CODE7005000523.000090003840011000603142200300920010008COM-
CODE0020009ITEM,DESC0030009PROD-
CODE004000130050004EACH0060006300.000100006600.0000300910010007COMCODE0020009ITEM-
DESC0030009PROD, CODE004000140050004EACH0060006100.000100006400.00&CVV2=123&FIRST_N
AME=Teddy&LAST_NAME=Tester&ADDRESS=123+Main+Street&CITY=Wilmington&STATE=DE&ZIP_CO
DE=12345&USER_DATA_1=Visa Level III Data Mult Line Items

```

Visa Capture Only (CCx4) with Enhanced / Level III Data

This is a sample of a Visa BRIC based Capture Only transaction containing the TAX_EXEMPT and TAX_AMT tags along with Enhanced / Level III summary data and one line item supplied in the ENHANCED_TLV tag.

Note: If the TAX_AMT and TAX_EXEMPT tags are included with the CCx2 authorization only, there is no need to supply with the CCx4 capture only. If these tags are included with both the CCx2 authorization only and CCx4 capture only, the values from the CCx4 capture only will be used.

XML

```

<DETAIL cust_nbr="1234" merch_nbr="1234567" dba_nbr="1" terminal_nbr="1">
<TRAN_TYPE>CCx4</TRAN_TYPE>
<AMOUNT>330.74</AMOUNT>
<TAX_EXEMPT>N</TAX_EXEMPT>
<TAX_AMT>12.75</TAX_AMT>
<BATCH_ID>220314</BATCH_ID>
<TRAN_NBR>3</TRAN_NBR>
<ORIG_AUTH_GUID>09LJF8QX4V2QEV2Y74W</ORIG_AUTH_GUID>
<CARD_ENT_METH>Z</CARD_ENT_METH>
<INDUSTRY_TYPE>E</INDUSTRY_TYPE>
<ENHANCED_TLV>0010006VISA_G00200540010012CUST-
CODE723005000517.990090003840011000603162200300930010010COMCODE6210020009ITEM-
DESC0030008PRODCODE004000160050004UNIT006000550.000100006300.00</ENHANCED_TLV>
<USER_DATA_1>Visa Level III Data</USER_DATA>
</DETAIL>

```

HTTPS

```
CUST_NBR=1234&MERCH_NBR=1234567&DBA_NBR=1&TERMINAL_NBR=1&TRAN_TYPE=CCx4&AMOUNT=330
.74&TAX_EXEMPT=N&TAX_AMT=12.75&BATCH_ID=220314&TRAN_NBR=3&ORIG_AUTH_GUID=09LJF8QX4
V2QEY2Y74W&CARD_ENT_METH=Z&INDUSTRY_TYPE=E&ENHANCED_TLV=0010006VISA_G0020054001001
2CUST-
CODE723005000517.990090003840011000603162200300930010010COMCODE6210020009ITEM-
DESC0030008PRODCODE004000160050004UNIT006000550.000100006300.00&USER_DATA_1=Visa
Level III Data
```

MasterCard Transaction Samples

MasterCard - Sale (CCx1) with Enhanced / Level III Data

This is a sample of a MasterCard Sale transaction containing the TAX_EXEMPT and TAX_AMT tags along with Enhanced / Level III summary data and one line item supplied in the ENHANCED_TLV tag.

XML

```
<DETAIL cust_nbr="1234" merch_nbr="1234567" dba_nbr="1" terminal_nbr="1">
<TRAN_TYPE>CCx1</TRAN_TYPE>
<AMOUNT>256.88</AMOUNT>
<TAX_EXEMPT>N</TAX_EXEMPT>
<TAX_AMT>6.88</TAX_AMT>
<BATCH_ID>220314</BATCH_ID>
<TRAN_NBR>4</TRAN_NBR>
<ACCOUNT_NBR>5000000011110003</ACCOUNT_NBR>
<EXP_DATE>4912</EXP_DATE>
<CARD_ENT_METH>E</CARD_ENT_METH>
<INDUSTRY_TYPE>E</INDUSTRY_TYPE>
<ENHANCED_TLV>0010004MC_G00200190010012CUST CODE-MC00300870010012PROD CODE-
MC0020012ITEM-DESC MC003000150040002EA0050006250.000070012PURCH ORD-
MC</ENHANCED_TLV>
<CVV2>123</CVV2>
<FIRST_NAME>Teddy</FIRST_NAME>
<LAST_NAME>Tester</LAST_NAME>
<ADDRESS>123 Main St</ADDRESS>
<CITY>Wilmington</CITY>
<STATE>DE</STATE>
<ZIP_CODE>12345</ZIP_CODE>
<USER_DATA_1>MC Level III Data</USER_DATA>
</DETAIL>
```

HTTPS

```
CUST_NBR=1234&MERCH_NBR=1234567&DBA_NBR=1&TERMINAL_NBR=1&TRAN_TYPE=CCx1&AMOUNT=256
.88&TAX_EXEMPT=N&TAX_AMT=6.88&BATCH_ID=220314&TRAN_NBR=4&ACCOUNT_NBR=500000011110
003&EXP_DATE=4912&CARD_ENT_METH=E&INDUSTRY_TYPE=E&ENHANCED_TLV=0010004MC_G00200190
010012CUST CODE-MC00300870010012PROD CODE-MC0020012ITEM-DESC
MC003000150040002EA0050006250.000070012PURCH ORD-
MC&CVV2=123&FIRST_NAME=Teddy&LAST_NAME=Tester&ADDRESS=123+Main+Street&CITY=wilming
ton&STATE=DE&ZIP_CODE=12345&USER_DATA_1=MC Level III Data
```

MasterCard - Authorization Only (CCx2) with Enhanced / Level III Data

This is a sample of a MasterCard Authorization Only transaction containing the TAX_EXEMPT and TAX_AMT tags along with Enhanced / Level III summary data and two line items supplied in the ENHANCED_TLV tag.

XML

```
<DETAIL cust_nbr="1234" merch_nbr="1234567" dba_nbr="1" terminal_nbr="1">
<TRAN_TYPE>CCx2</TRAN_TYPE>
<AMOUNT>729.75</AMOUNT>
<TAX_EXEMPT>N</TAX_EXEMPT>
<TAX_AMT>29.75</TAX_AMT>
<BATCH_ID>220314</BATCH_ID>
<TRAN_NBR>5</TRAN_NBR>
<ACCOUNT_NBR>5000000011110003</ACCOUNT_NBR>
<EXP_DATE>4912</EXP_DATE>
<CARD_ENT_METH>E</CARD_ENT_METH>
<INDUSTRY_TYPE>E</INDUSTRY_TYPE>
<ENHANCED_TLV>0010004MC_G00200200010013CUST CODE-MC100300900010013PROD CODE-
MC10020013ITEM-DESC MC1003000120040002EA0050006500.000070013PURCH-ORD-
MC100300900010013PROD CODE-MC30020013ITEM-DESC
MC3003000140040002EA0050006200.000070013PURCH ORD-MC3 </ENHANCED_TLV>
<CVV2>123</CVV2>
<FIRST_NAME>Teddy</FIRST_NAME>
<LAST_NAME>Tester</LAST_NAME>
<ADDRESS>123 Main St</ADDRESS>
<CITY>Wilmington</CITY>
<STATE>DE</STATE>
<ZIP_CODE>12345</ZIP_CODE>
<USER_DATA_1>MC Level III Data Mult Line Items</USER_DATA>
</DETAIL>
```


HTTPS

```
CUST_NBR=1234&MERCH_NBR=1234567&DBA_NBR=1&TERMINAL_NBR=1&TRAN_TYPE=CCx2&AMOUNT=729
.75&TAX_EXEMPT=N&TAX_AMT=29.75&BATCH_ID=220314&TRAN_NBR=2&ACCOUNT_NBR=50000001111
0003&EXP_DATE=4912&CARD_ENT_METH=E&INDUSTRY_TYPE=E&ENHANCED_TLV=0010004MC_G0020020
0010013CUST CODE-MC100300900010013PROD CODE-MC10020013ITEM-DESC
MC1003000120040002EA0050006500.000070013PURCH-ORD-MC100300900010013PROD CODE-
MC30020013ITEM-DESC MC3003000140040002EA0050006200.000070013PURCH ORD-MC3
&CVV2=123&FIRST_NAME=Teddy&LAST_NAME=Tester&ADDRESS=123+Main+Street&CITY=Wilmingto
n&STATE=DE&ZIP_CODE=12345&USER_DATA_1=MC Level III Data Mult Line Items
```

MasterCard Capture Only (CCx4) with Enhanced / Level III Data

This is a sample of a MasterCard BRIC based Capture Only transaction containing the TAX_EXEMPT and TAX_AMT tags along with Enhanced / Level III summary data and one line item supplied in the ENHANCED_TLV tag.

Note: If the TAX_AMT and TAX_EXEMPT tags are included with the CCx2 authorization only, there is no need to supply with the CCx4 capture only. If these tags are included with both the CCx2 authorization only and CCx4 capture only, the values from the CCx4 capture only will be used.

XML

```
<DETAIL cust_nbr="1234" merch_nbr="1234567" dba_nbr="1" terminal_nbr="1">
<TRAN_TYPE>CCx4</TRAN_TYPE>
<AMOUNT>330.74</AMOUNT>
<TAX_EXEMPT>N</TAX_EXEMPT>
<TAX_AMT>12.75</TAX_AMT>
<BATCH_ID>220314</BATCH_ID>
<TRAN_NBR>6</TRAN_NBR>
<ORIG_AUTH_GUID>09LJF91G03V6P6JA89H</ORIG_AUTH_GUID>
<CARD_ENT_METH>Z</CARD_ENT_METH>
<INDUSTRY_TYPE>E</INDUSTRY_TYPE>
<ENHANCED_TLV>0010004MC_G00200200010013CUST CODE-MC400300930010013PROD CODE-
MC40020013ITEM-DESC MC400300031000040002EA00500073500.000070013PURCH-ORD-
MC4</ENHANCED_TLV>
<USER_DATA_1>MC Level III Data</USER_DATA>
</DETAIL>
```

HTTPS

```
CUST_NBR=1234&MERCH_NBR=1234567&DBA_NBR=1&TERMINAL_NBR=1&TRAN_TYPE=CCx4&AMOUNT=330
.74&TAX_EXEMPT=N&TAX_AMT=12.75&BATCH_ID=220314&TRAN_NBR=6&ORIG_AUTH_GUID=09LJF91G0
3V6P6JA89H&CARD_ENT_METH=Z&INDUSTRY_TYPE=E&ENHANCED_TLV=0010004MC_G00200200010013C
UST CODE-MC400300930010013PROD CODE-MC40020013ITEM-DESC
MC400300031000040002EA00500073500.000070013PURCH-ORD-MC4 &USER_DATA_1=MC Level III
Data
```

Discover Transaction Samples

Discover - Sale (CCx1) with Enhanced Data

This is a sample of a Discover Sale transaction containing the TAX_EXEMPT and TAX_AMT tags along with Enhanced summary data and one line item supplied in the ENHANCED_TLV tag.

XML

```
<DETAIL cust_nbr="1234" merch_nbr="1234567" dba_nbr="1" terminal_nbr="1">
<TRAN_TYPE>CCx1</TRAN_TYPE>
<AMOUNT>680.88</AMOUNT>
<TAX_EXEMPT>N</TAX_EXEMPT>
<TAX_AMT>30.88</TAX_AMT>
<BATCH_ID>220314</BATCH_ID>
<TRAN_NBR>7</TRAN_NBR>
<ACCOUNT_NBR>6011499300110002</ACCOUNT_NBR>
<EXP_DATE>4912</EXP_DATE>
<CARD_ENT_METH>E</CARD_ENT_METH>
<INDUSTRY_TYPE>E</INDUSTRY_TYPE>
<ENHANCED_TLV>0010006DISC_G002001200700059270100300620020014ITEM DESC-
DISC0030014PROD CODE-DISC004000120110015PROMO</ENHANCED_TLV>
<CVV2>123</CVV2>
<FIRST_NAME>Teddy</FIRST_NAME>
<LAST_NAME>Tester</LAST_NAME>
<ADDRESS>123 Main St</ADDRESS>
<CITY>Wilmington</CITY>
<STATE>DE</STATE>
<ZIP_CODE>12345</ZIP_CODE>
<USER_DATA_1>Discover Enhanced Data</USER_DATA>
</DETAIL>
```

HTTPS

```
CUST_NBR=1234&MERCH_NBR=1234567&DBA_NBR=1&TERMINAL_NBR=1&TRAN_TYPE=CCx1&AMOUNT=680
.88&TAX_EXEMPT=N&TAX_AMT=30.88&BATCH_ID=220314&TRAN_NBR=7&ACCOUNT_NBR=601149930011
0002&EXP_DATE=4912&CARD_ENT_METH=E&INDUSTRY_TYPE=E&ENHANCED_TLV=0010006DISC_G00200
1200700059270100300620020014ITEM DESC-DISC0030014PROD CODE-
DISC004000120110015PROMO&CVV2=123&FIRST_NAME=Teddy&LAST_NAME=Tester&ADDRESS=123+Ma
in+Street&CITY=Wilmington&STATE=DE&ZIP_CODE=12345&USER_DATA_1=Discover Enhanced
Data
```

American Express Transaction Samples

American Express - Sale (CCx1) with Enhanced Data

This is a sample of an American Express Sale transaction containing the TAX_EXEMPT and TAX_AMT tags along with Enhanced summary data and one line item supplied in the ENHANCED_TLV tag.

XML

```
<DETAIL cust_nbr="1234" merch_nbr="1234567" dba_nbr="1" terminal_nbr="1">
<TRAN_TYPE>CCx1</TRAN_TYPE>
<AMOUNT>1256.04</AMOUNT>
<TAX_EXEMPT>N</TAX_EXEMPT>
<TAX_AMT>56.04</TAX_AMT>
<BATCH_ID>220314</BATCH_ID>
<TRAN_NBR>8</TRAN_NBR>
<ACCOUNT_NBR>340000111000005</ACCOUNT_NBR>
<EXP_DATE>4912</EXP_DATE>
<CARD_ENT_METH>E</CARD_ENT_METH>
<INDUSTRY_TYPE>E</INDUSTRY_TYPE>
<ENHANCED_TLV>0010008AMEX_A2000200210010014DEPT NAME-AMEX00300420010014ITEM DESC-
AMEX002000160030006200.00</ENHANCED_TLV>
<CVV2>123</CVV2>
<FIRST_NAME>Teddy</FIRST_NAME>
<LAST_NAME>Tester</LAST_NAME>
<ADDRESS>123 Main St</ADDRESS>
<CITY>Wilmington</CITY>
<STATE>DE</STATE>
<ZIP_CODE>12345</ZIP_CODE>
<USER_DATA_1>Amex Enhanced Data</USER_DATA>
</DETAIL>
```

HTTPS

```
CUST_NBR=1234&MERCH_NBR=1234567&DBA_NBR=1&TERMINAL_NBR=1&TRAN_TYPE=CCx1&AMOUNT=125
6.88&TAX_EXEMPT=N&TAX_AMT=56.04&BATCH_ID=220314&TRAN_NBR=8&ACCOUNT_NBR=34000011100
0005&EXP_DATE=4912&CARD_ENT_METH=E&INDUSTRY_TYPE=E&ENHANCED_TLV=0010008AMEX_A20002
00210010014DEPT NAME-AMEX00300420010014ITEM DESC-
AMEX002000160030006200.00&CVV2=123&FIRST_NAME=Teddy&LAST_NAME=Tester&ADDRESS=123+M
ain+Street&CITY=Wilmington&STATE=DE&ZIP_CODE=12345&USER_DATA_1=Amex Enhanced Data
```