



Version
1.0

Project: Turnkey Echo Interfaces Specification

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Amendments

Version	Name	Description
1.0	Richard Churchman	First Draft and Working Copy.

Introduction

This document describes the HTTP interfaces to test HTTP messages formats.

HTTP integration is where the payload, this is the data to be processed into Jube, is a HTTP POST body. The POST body may be XML or JSON in any structure, with its precise structure being configured in the model definition of Jube. It of course follows that the XML or JSON should pass a parse on receipt of the POST, appropriate to the specification.

Payload Element Specifications

The following details the specification of the payload to be received over HTTP:

Account Financial Transactions

Credits and Debits made to a customer account, to or from an external beneficiary account:

Sample XML GUID

EntityAnalysisModelGUID=253e427e-4523-40d2-b155-fcd5348e20e9

Sample XML

```
<AccountTransaction>
  <AccountID>Rich16</AccountID>
  <TxnID>0987654321</TxnID>
  <TxnDateTime>2018-08-19T21:41:37.247</TxnDateTime>
  <AccountID>TestAccountID</AccountID>
  <Currency>826</Currency>
  <ResponseCode>1</ResponseCode>
  <CurrencyAmount>123.45</CurrencyAmount>
  <SettlementAmount>100000</SettlementAmount>
  <AccountCurrency>566</AccountCurrency>
  <IP>123.456.789.200</IP>
  <DeviceID>OlaRoseGoldPhone6</DeviceID>
  <ChannelID>1</ChannelID>
  <AppVersionCode>12.34</AppVersionCode>
  <ServiceCode>DID</ServiceCode>
  <System>Android</System>
  <Brand>ZTE</Brand>
  <Model>Barby</Model>
  <AccountLongitude>1222.3</AccountLongitude>
  <AccountLatitude>1222.3</AccountLatitude>
  <OS>Lollypop</OS>
  <Resolution>720*1280</Resolution>
  <DebuggerAttached>True</DebuggerAttached>
  <SimulatorAttached>True</SimulatorAttached>
  <Jailbreak>True</Jailbreak>
```

```

    <MAC>94:23:44f:2:d3</MAC>
    <ToAccountID>MTN</ToAccountID>
    <ToAccountExternalRef>ChurchmanR</ToAccountExternalRef>
    <AccountExternalRef>SmithJ</AccountExternalRef>
    <TwoFATypeID>SMS</TwoFATypeID>
    <TwoFAResponseID>1</TwoFAResponseID>
    <TransactionExternalResponseID>0</TransactionExternalResponseID>
    <Storage>True</Storage>
    <MCC>7995</MCC>
    <FingerprintHash>jhjkjhksjh2hjhkhj2k</FingerprintHash>
</AccountTransaction>

```

Sample JSON GUID

EntityAnalysisModelGUID=7e5f96df-5a9b-4e13-a007-e02d79f970b3

Sample JSON

```

{
  "AccountTransaction": {
    "AccountID": "Test1",
    "TxnID": "0987654321",
    "TxnDateTime": "2018-08-19T21:41:37.247",
    "Currency": "826",
    "ResponseCode": "1",
    "CurrencyAmount": "123.45",
    "SettlementAmount": "100000",
    "AccountCurrency": "566",
    "IP": "123.456.789.200",
    "DeviceID": "OlaRoseGoldPhone6",
    "ChannelID": "1",
    "AppVersionCode": "12.34",
    "ServiceCode": "DID",
    "System": "Android",
    "Brand": "ZTE",
    "Model": "Barby",
    "AccountLongitude": "1222.3",
    "AccountLatitude": "1222.3",
    "OS": "Lollypop",
    "Resolution": "720*1280",
    "DebuggerAttached": "True",
    "SimulatorAttached": "True",
    "Jailbreak": "True",
    "MAC": "94:23:44f:2:d3",
    "ToAccountID": "MTN",
    "ToAccountExternalRef": "ChurchmanR",
    "TwoFATypeID": "SMS",
    "TwoFAResponseID": "1",
    "TransactionExternalResponseID": "0",

```

```
"Storage": "True",
  "FingerprintHash": "jhkhjkhsjh2hjhkhj2k"
}
```

Advertising PPV Impression

A request for a bid in PPV advertising:

Sample Querystring GUID

EntityAnalysisModelGUID=fd7dae72-164e-44c1-934c-b0f07cba5f42

Querystring

EntityAnalysisModelGUID=fd7dae72-164e-44c1-934c-b0f07cba5f42&TargetID=1234&Domain=test&IP=188.146.100.144&UserAgent=Windows&g=Geo=UK&Keywords=test&TargetType=domain&PublisherID=test&carrier=mobile

Stock Market End of Day

An End of Day Stock Market Closing Price:

Sample XML GUID

SymbolRegistryGUID=18884cc2-8aa0-45c6-af68-521020b18e98&IntervalType=d&IntervalValue=1

Sample XML

```
<EOD>
  <EODDate>2018-08-19T21:41:37.247</EODDate>
  <EODValue>1234.56</EODValue>
</EOD>
```

Sample JSON GUID

SymbolRegistryGUID=f7aa8483-3bf5-418a-b7f2-26c2b917e8cb&IntervalType=d&IntervalValue=1

Sample JSON

```
{
  "EODValue": 1234.56,
  "EODDate" : "2018-08-10T00:06:35.927"
}
```

Direct Exhaustive Recall

Exhaustive model recall bypassing Model and Symbol Models:

Sample XML GUID

ExhaustiveSearchInstanceGUID=3bf20ba5-3816-4636-b4fd-ea9037b61fcf

Sample XML

```
<Payload>
  <Value Name='Different_Merchant_Types_1_Week'>4</Value>
  <Value Name='Count_Transactions_Declined_1_Day'>3</Value>
```

```
<Value Name='Count_Unsafe_Terminals_1_Day'>2</Value>
<Value Name='Foreign'>1</Value>
<Value Name='Count_In_Person_1_Day'>2</Value>
<Value Name='Different_Decline_Reasons_1_Day'>3</Value>
<Value Name='Count_ATM_1_Day'>3</Value>
<Value Name='Count_Transactions_PIN_Decline_1_Day'>3</Value>
<Value Name='Sum_Transactions_1_Day'>4000</Value>
<Value Name='Authenticated'>1</Value>
<Value Name='Count_Same_Merchant_Used_Before_1_Week'>2</Value>
</Payload>
```