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# ***dsiPDCX***

## ***XML Definitions***

***V01.42***

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01.28	14 Jul 2013	<ul style="list-style-type: none"><li>• Added configuration and data flow information for IBM SurePOS 500 MSR support</li><li>• Added configuration and data flow information for FEC AER Touch POS Terminal support</li><li>• Added configuration and data flow information for Micros PCWS 2015 System support</li><li>• Added configuration and data flow information for POSX EVO TP4 All-In-One POS support</li><li>• Added new tags &lt;SignMaximumX&gt; and &lt;SignMaximumY&gt; in &lt;Signature&gt; response</li></ul>
01.28	04 Oct 2013	<ul style="list-style-type: none"><li>• Added updates for IPTranLT</li></ul>

- |       |             |  |
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| 01.33 | 01 Mar 2014 | <ul style="list-style-type: none"><li>• Added reference to Loyalty for new &lt;Admin&gt; XML for &lt;AddAlias&gt;, &lt;NewAliasAcct&gt;, &lt;RemoveAlias&gt;, &lt;Transfer&gt;</li><li>• Added ONTRAN explanation for SecureDevice</li></ul> |
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## 1.0 Introduction

---

dsiPDCX is a Windows ActiveX control that provides POS applications with the ability to process an extensive assortment of electronic payments in a multi-tiered client-server architecture without handling sensitive cardholder data (i.e. account number, expiration date, CVV/CID, PIN). Applications integrated with dsiPDCX act as a client to any of Datacap's NETePay payment servers to process payments.

## 1.1 Secure Device Initialization

dsiPDCX requires an Admin command to initialize the attached PDC or attached SecureDevice. This command should be performed during startup of the POS system with the optional PIN pad attached. It should not be performed prior to every transaction as it takes several seconds to complete with an attached PIN pad. The command named 'SecureDeviceInit' is as follows:

XML Template: **SecureDeviceInit Request**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>SecureDeviceInit</TranCode>
    <TranType>TranType</TranType>
    <PadType>PadType</PadType>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Admin>
</TStream>
```

## 1.2 Method: *GetDevicesInfo*

---

```
<Devices>
<NumSecureDevices>SSSSSS</NumSecureDevices>
<SecureDeviceNN>
  <DescriptionNN>Description</DescriptionNN>
  <InterfaceNN>Interface</InterfaceNN>
  <SecureDeviceIDNN>SecureDeviceID</SecureDeviceIDNN>
  <NumPadTypesNN>NumPadTypes</NumPadTypesNN>
  <SecureDeviceNNPadType1>SecureDevicePadType1</SecureDeviceNNPadType1>
  <SecureDeviceNNPadType2>SecureDevicePadType2</SecureDeviceNNPadType2>
</SecureDeviceNN>
</Devices>
```

### 1.3 BatchSummary Request

---

XML Template: **Batch Summary Request**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>BatchSummary</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Admin>
</TStream>
```

## 1.4 BatchClear Request

---

XML Template: **Batch Clear Request**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <SequenceNo>SequenceNo</SequenceNo>
    <TranCode>BatchClear</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Admin>
</TStream>
```

## 1.5 BatchClose Request

---

XML Template: **Batch Close Request**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>BatchClose</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <BatchNo>BatchNo</BatchNo>
    <BatchItemCount>BatchItemCount</BatchItemCount>
    <NetBatchTotal>NetBatchTotal</NetBatchTotal>
    <CreditPurchaseCount>CreditPurchaseCount</CreditPurchaseCount>
    <CreditPurchaseAmount>CreditPurchaseAmount</CreditPurchaseAmount>
    <CreditReturnCount>CreditReturnCount</CreditReturnCount>
    <CreditReturnAmount>CreditReturnAmount</CreditReturnAmount>
    <DebitPurchaseCount>DebitPurchaseCount</DebitPurchaseCount>
    <DebitPurchaseAmount>DebitPurchaseAmount</DebitPurchaseAmount>
    <DebitReturnCount>DebitReturnCount</DebitReturnCount>
    <DebitReturnAmount>DebitReturnAmount</DebitReturnAmount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Admin>
</TStream>
```

## 1.6 Batch Number Change Request

---

XML Template: **BatchNumber Request**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>BatchNumber</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <BatchNumber>BatchNumber</BatchNumber>
  </Admin>
</TStream>
```

## 1.7 ServerVersion Request

---

XML Template: **ServerVersion Request**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>ServerVersion</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Admin>
</TStream>
```

## 1.8 GetSignature Request

---

XML Template: **GetSignature Request**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>GetSignature</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
  </Transaction>
</TStream>
```

## 1.9 XML Responses

### 1.91 Transaction Response

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <TranResponse>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <AcctNo>AcctNo</AcctNo>
    <ExpDate>ExpDate</ExpDate>
    <CardType>CardType</CardType>
    <TranCode>TranCode</TranCode>
    <AuthCode>AuthCode</AuthCode>
    <AVSResult>AVSResult</AVSResult>
    <CVVResult>CVVResult</CVVResult>
    <VoucherNo>VoucherNo</VoucherNo>
    <CaptureStatus>CaptureStatus</CaptureStatus>
    <RefNo>RefNo</RefNo>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <OperatorID>OperatorID</OperatorID>
    <Memo>Memo</Memo>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
      <Gratuity>Gratuity</Gratuity>
      <CashBack>CashBack</CashBack>
      <Balance>Balance</Balance>
    </Amount>
    <AcqRefData>AcqRefData</AcqRefData>
    <RecordNo>RecordNo</RecordNo>
  </TranResponse>
</RStream>
<IssueCurrency>IssueCurrency</IssueCurrency>
<IssueCurrencyPreviousBalance>IssueCurrencyPreviousBalance</IssueCurrencyPreviousBalance>
<IssueCurrencyEndingBalance>IssueCurrencyEndingBalance</IssueCurrencyEndingBalance>
<ExchangeRate>ExchangeRate</ExchangeRate>
<PrePaidExp>PrePaidExp</PrePaidExp>
```

## 1.92 Loyalty Transaction Response

---

### Loyalty Response - Format 1

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <TranResponse>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <AcctNo>AcctNo</AcctNo>
    <ExpDate>ExpDate</ExpDate>
    <CardType>CardType</CardType>
    <TranCode>TranCode</TranCode>
    <AuthCode>AuthCode</AuthCode>
    <CaptureStatus>CaptureStatus</CaptureStatus>
    <RefNo>RefNo</RefNo>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <OperatorID>OperatorID</OperatorID>
    <Format>1</Format>
    <Memo>Memo</Memo>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
    </Amount>
    <LoyaltyExp>LoyaltyExp</LoyaltyExp>
    <Items>
      <PointsBalance>PointsBalance</PointsBalance>
      <UnitsBalance>UnitsBalance</UnitsBalance>
      <PriceBalance>PriceBalance</PriceBalance>
    </Items>
  </TranResponse>
</RStream>
```

### Loyalty Response - Format 2

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <TranResponse>
    <MerchantID>MerchantID</MerchantID>
```

```

<TerminalID>TerminalID</TerminalID>
<AcctNo>AcctNo</AcctNo>
<ExpDate>ExpDate</ExpDate>
<CardType>CardType</CardType>
<TranCode>TranCode</TranCode>
<AuthCode>AuthCode</AuthCode>
<CaptureStatus>CaptureStatus</CaptureStatus>
<RefNo>RefNo</RefNo>
<InvoiceNo>InvoiceNo</InvoiceNo>
<OperatorID>OperatorID</OperatorID>
<Format>2</Format>
<Memo>Memo</Memo>
<Amount>
  <Purchase>Purchase</Purchase>
  <Authorize>Authorize</Authorize>
</Amount>
<LoyaltyExp>LoyaltyExp</LoyaltyExp>
<Items>
  <PointsBalance>PointsBalance</PointsBalance>
  <UnitsBalance>UnitsBalance</UnitsBalance>
  <PriceBalance>PriceBalance</PriceBalance>
  <PointsBalance2>PointsBalance2</PointsBalance2>
  <UnitsBalance2>UnitsBalance2</UnitsBalance2>
  <PriceBalance2>PriceBalance2</PriceBalance2>
  <PointsBalance3>PointsBalance3</PointsBalance3>
  <UnitsBalance3>UnitsBalance3</UnitsBalance3>
  <PriceBalance3>PriceBalance3</PriceBalance3>
  <PointsBalance4>PointsBalance4</PointsBalance4>
  <UnitsBalance4>UnitsBalance4</UnitsBalance4>
  <PriceBalance4>PriceBalance4</PriceBalance4>
  <PointsBalance5>PointsBalance5</PointsBalance5>
  <UnitsBalance5>UnitsBalance5</UnitsBalance5>
  <PriceBalance5>PriceBalance5</PriceBalance5>
  <PointsBalance6>PointsBalance6</PointsBalance6>
  <UnitsBalance6>UnitsBalance6</UnitsBalance6>
  <PriceBalance6>PriceBalance6</PriceBalance6>
  <PointsBalance7>PointsBalance7</PointsBalance7>
  <UnitsBalance7>UnitsBalance7</UnitsBalance7>
  <PriceBalance7>PriceBalance7</PriceBalance7>
  <PointsBalance8>PointsBalance8</PointsBalance8>
  <UnitsBalance8>UnitsBalance8</UnitsBalance8>
  <PriceBalance8>PriceBalance8</PriceBalance8>
</Items>
<TotalPointsBalance>TotalPointsBalance</TotalPointsBalance>
<TotalUnitsBalance>TotalUnitsBalance</TotalUnitsBalance>
<TotalPriceBalance>TotalPriceBalance</TotalPriceBalance>
<WriteReceipt>Receipt Print Data</WriteReceipt>
</TranResponse>
</RStream>

```

### 1.93 BatchSummary Response

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
  </CmdResponse>
  <BatchSummary>
    <MerchantID>MerchantID</MerchantID>
    <OperatorID>OperatorID</OperatorID>
    <TerminalID>TerminalID</TerminalID>
    <BatchNo>BatchNo</BatchNo>
    <BatchItemCount>BatchItemCount</BatchItemCount >
    <NetBatchTotal>NetBatchTotal</NetBatchTotal >
    <CreditPurchaseCount>CreditPurchaseCount</CreditPurchaseCount>
    <CreditPurchaseAmount>CreditPurchaseAmount</CreditPurchaseAmount>
    <CreditReturnCount>CreditReturnCount</CreditReturnCount>
    <CreditReturnAmount>CreditReturnAmount</CreditReturnAmount>
    <DebitPurchaseCount>DebitPurchaseCount</DebitPurchaseCount>
    <DebitPurchaseAmount>DebitPurchaseAmount</DebitPurchaseAmount>
    <DebitReturnCount>DebitReturnCount</DebitReturnCount>
    <DebitReturnAmount>DebitReturnAmount</DebitReturnAmount>
  </BatchSummary>
</RStream>
```

## 1.94 BatchClear Response

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
  </CmdResponse>
  <BatchClear>
    <MerchantID>MerchantID</MerchantID>
    <OperatorID>OperatorID</OperatorID>
    <TerminalID>TerminalID</TerminalID>
    <BatchNo>BatchNo</BatchNo>
    <BatchItemCount>BatchItemCount</BatchItemCount >
    <NetBatchTotal>NetBatchTotal</NetBatchTotal>
    <ControlNo>ControlNo</ControlNo>
  </BatchClear>
</RStream>
```

## 1.95 BatchClose Response

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
  </CmdResponse>
  <BatchClose>
    <MerchantID>MerchantID</MerchantID>
    <OperatorID>OperatorID</OperatorID>
    <TerminalID>TerminalID</TerminalID>
    <BatchNo>BatchNo</BatchNo>
    <BatchItemCount>BatchItemCount</BatchItemCount >
    <NetBatchTotal>NetBatchTotal</NetBatchTotal>
    <CreditPurchaseCount>CreditPurchaseCount</CreditPurchaseCount>
    <CreditPurchaseAmount>CreditPurchaseAmount</CreditPurchaseAmount>
    <CreditReturnCount>CreditReturnCount</CreditReturnCount>
    <CreditReturnAmount>CreditReturnAmount</CreditReturnAmount>
    <DebitPurchaseCount>DebitPurchaseCount</DebitPurchaseCount>
    <DebitPurchaseAmount>DebitPurchaseAmount</DebitPurchaseAmount>
    <DebitReturnCount>DebitReturnCount</DebitReturnCount>
    <DebitReturnAmount>DebitReturnAmount</DebitReturnAmount>
    <ControlNo>ControlNo</ControlNo>
  </BatchClose>
</RStream>
```

## 1.96 ServerVersion Response

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
  </CmdResponse>
  <ServerVersion>
    <ProductName>ProductName</ProductName>
    <ProductClass>ProductClass</ProductClass>
    <Provider>Provider</Provider>
    <ProductVersion>ProductVersion</ProductVersion>
  </ServerVersion>
</RStream>
```

## 1.97 GetSignature Response

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
  </CmdResponse>
  <Signature>Signature</Signature>
  <SignMaximumX>SignMaximumX</SignMaximumX>
  <SignMaximumY>SignMaximumY</SignMaximumY>
</RStream>
```

## 1.98 XML Document Type Definitions (DTDs)

### 1.981 TStream

---

```
<?xml version="1.0"?>

<!DOCTYPE TStream [

<!-- TStream is the document request message template
-->

<!ELEMENT TStream (Transaction | Admin)*>

<!ELEMENT Transaction (
    IPAddress?,
    IpPort?,
    MerchantID,
    TerminalID?,
    OperatorID?,
    DateTime?,
    TranType,
    PadType?,
    Format?,
    CardType?,
    TranCode,
    MinLen?,
    MaxLen?,
    Preamble?,
    PrePaidStripeTimeout?,
    SecureDevice?,
    ComPort?,
    Duplicate?,
    InvoiceNo,
    Memo?,
    RefNo,
    PartialAuth?,
    AccountSource?,
    CardHolderID?,
    LastFourCheck?,
    Account,
    Amount,
    Points?,
    AVS?,
    CVVData?,
    PIN?,
    SequenceNo?,
    TerminalName?,
    ShiftID?,
    Signature?,
    TranInfo?,
    DemographicInfo?
```

)>

```
<!ELEMENT Admin (
    IPAddress?,
    IpPort?,
    MerchantID,
    TerminalID?,
    OperatorID?,
    TranType?,
    TranCode,
    SecureDevice?,
    ComPort?,
    InvoiceNo?,
    RefNo?,
    Account?,
    Amount?,
    TerminalName?,
    ShiftID?,
    Signature?,
    TranInfo?,
    BatchInfo?
)
```

)>

```
<!ELEMENT IPAddress (#PCDATA) >
<!ELEMENT IpPort (#PCDATA) >
<!ELEMENT MerchantID (#PCDATA) >
<!ELEMENT TerminalID (#PCDATA) >
<!ELEMENT DateTime (Date, Time) >
<!ELEMENT Date (#PCDATA) >
<!ELEMENT Time (#PCDATA) >
<!ELEMENT TranType (#PCDATA) >
<!ELEMENT PadType (#PCDATA) >
<!ELEMENT Format (#PCDATA) >
<!ELEMENT CardType (#PCDATA) >
<!ELEMENT TranCode (#PCDATA) >
<!ELEMENT MinLen (#PCDATA) >
<!ELEMENT MaxLen (#PCDATA) >
<!ELEMENT Preamble (#PCDATA) >
<!ELEMENT PrePaidStripeTimeout (#PCDATA) >
<!ELEMENT SecureDevice (#PCDATA) >
```

```

<!ELEMENT ComPort (#PCDATA) >
<!ELEMENT Duplicate (#PCDATA) >
<!ELEMENT InvoiceNo (#PCDATA) >
<!ELEMENT OperatorID (#PCDATA) >
<!ELEMENT Memo (#PCDATA) >
<!ELEMENT RefNo (#PCDATA) >
<!ELEMENT AccountSource (#PCDATA) >
<!ELEMENT CardHolderID (#PCDATA) >
<!ELEMENT LastFourCheck (#PCDATA) >
<!ELEMENT Account ((Name?, Track2) | (Name?, AcctNo)) >
<!ELEMENT Name (#PCDATA) >
<!ELEMENT Track2 (#PCDATA) >
<!ELEMENT AcctNo (#PCDATA) >

<!ELEMENT Amount (
    Purchase,
    CashBack?,
    Authorize?,
    Gratuity?,
    Tax?,
    FSAPrescription?,
    FSAVision?,
    FSAClinical?,
    FSADental?
)>
<!ELEMENT Purchase (#PCDATA) >
<!ELEMENT CashBack (#PCDATA) >
<!ELEMENT Authorize (#PCDATA) >
<!ELEMENT Gratuity (#PCDATA) >
<!ELEMENT Tax (#PCDATA) >

<!ELEMENT Points (#PCDATA) >
<!ELEMENT Items (
    Points,
    Units,
    Price,
    PromoID,
    Desc?,

    Points2?,
    Units2?,
    Price2?,
    PromoID2?,
    Desc2?,

```

Points3?,  
Units3?,  
Price3?,  
PromoID3?,  
Desc3?,

Points4?,  
Units4?,  
Price4?,  
PromoID4?,  
Desc4?,

Points5?,  
Units5?,  
Price5?,  
PromoID5?,  
Desc5?,

Points6?,  
Units6?,  
Price6?,  
PromoID6?,  
Desc6?,

Points7?,  
Units7?,  
Price7?,  
PromoID7?,  
Desc7?,

Points8?,  
Units8?,  
Price8?,  
PromoID8?,  
Desc8?

)>

```
<!ELEMENT Points #PCDATA)
<!ELEMENT Units #PCDATA)
<!ELEMENT Price #PCDATA)
<!ELEMENT PromoID #PCDATA)
<!ELEMENT Desc #PCDATA)

<!ELEMENT Points2 #PCDATA)
<!ELEMENT Units2 #PCDATA)
<!ELEMENT Price2 #PCDATA)
<!ELEMENT PromoID2 #PCDATA)
<!ELEMENT Desc2 #PCDATA)

<!ELEMENT Points3 #PCDATA)
<!ELEMENT Units3 #PCDATA)
<!ELEMENT Price3 #PCDATA)
<!ELEMENT PromoID3 #PCDATA)
<!ELEMENT Desc3 #PCDATA)
```

```

<!ELEMENT Points4 #PCDATA)
<!ELEMENT Units4 #PCDATA)
<!ELEMENT Price4 #PCDATA)
<!ELEMENT PromoID4 #PCDATA)
<!ELEMENT Desc4 #PCDATA)

<!ELEMENT Points5 #PCDATA)
<!ELEMENT Units5 #PCDATA)
<!ELEMENT Price5 #PCDATA)
<!ELEMENT PromoID5 #PCDATA)
<!ELEMENT Desc5 #PCDATA)

<!ELEMENT Points6 #PCDATA)
<!ELEMENT Units6 #PCDATA)
<!ELEMENT Price6 #PCDATA)
<!ELEMENT PromoID6 #PCDATA)
<!ELEMENT Desc6 #PCDATA)

<!ELEMENT Points7 #PCDATA)
<!ELEMENT Units7 #PCDATA)
<!ELEMENT Price7 #PCDATA)
<!ELEMENT PromoID7 #PCDATA)
<!ELEMENT Desc7 #PCDATA)

<!ELEMENT Points8 #PCDATA)
<!ELEMENT Units8 #PCDATA)
<!ELEMENT Price8 #PCDATA)
<!ELEMENT PromoID8 #PCDATA)
<!ELEMENT Desc8 #PCDATA)

<!ELEMENT AVS (
Address,
Zip)
>
<!ELEMENT Address (#PCDATA) >
<!ELEMENT Zip (#PCDATA) >

<!ELEMENT CVVData (#PCDATA) >

<!ELEMENT SequenceNo (#PCDATA) >

<!ELEMENT PIN (
PINblock,
DervdKey
) >

<!ELEMENT PINblock (#PCDATA) >
<!ELEMENT DervdKey (#PCDATA) >

<!ELEMENT TranInfo (
AuthCode?,
AcqRefData?,
CVVResult?,
AVSResult?,
CustomerCode?
) >

```

```

<!ELEMENT AuthCode (#PCDATA) >
<!ELEMENT Memo (#PCDATA) >
<!ELEMENT AcqRefData (#PCDATA) >
<!ELEMENT RecordNo (#PCDATA) >
<!ELEMENT CVVResult (#PCDATA) >
<!ELEMENT AVSResult (#PCDATA) >
<!ELEMENT CustomerCode (#PCDATA) >

<!ELEMENT DemographicInfo (
    CustEmail?,
    CustName?,
    CustPhone?,
    CustAddr1?,
    CustAddr2?,
    CustCity?,
    CustState?,
    CustZip?,
    CustLanguage?
)>

<!ELEMENT CustEmail (#PCDATA) >
<!ELEMENT CustName (#PCDATA) >
<!ELEMENT CustPhone (#PCDATA) >
<!ELEMENT CustAddr1 (#PCDATA) >
<!ELEMENT CustAddr2 (#PCDATA) >
<!ELEMENT CustState (#PCDATA) >
<!ELEMENT CustZip (#PCDATA) >
<!ELEMENT CustLanguage (#PCDATA) >

<!ELEMENT Purchase (#PCDATA) >

<!ELEMENT TerminalName (#PCDATA) >
<!ELEMENT ShiftID (#PCDATA) >
<!ELEMENT Signature (#PCDATA) >

<!ELEMENT BatchNo (#PCDATA) >
<!ELEMENT BatchItemCount (#PCDATA) >
<!ELEMENT NetBatchTotal (#PCDATA) >
<!ELEMENT CreditPurchaseCount (#PCDATA) >
<!ELEMENT CreditPurchaseAmount (#PCDATA) >
<!ELEMENT CreditReturnCount (#PCDATA) >
<!ELEMENT CreditReturnAmount (#PCDATA) >
<!ELEMENT DebitPurchaseCount (#PCDATA) >
<!ELEMENT DebitPurchaseAmount (#PCDATA) >
<!ELEMENT DebitReturnCount (#PCDATA) >
<!ELEMENT DebitReturnAmount (#PCDATA) >

]>

<TStream>
</TStream>

```

## 1.982 RStream

---

```
<?xml version="1.0"?>

<!-- RStream is the document response message template
-->

<!DOCTYPE RStream [

<!ELEMENT RStream (

CmdResponse |
(CmdResponse, TranResponse) |
(CmdResponse, TranResponse, PrintData) |
(CmdResponse, TranResponse, ItemBalances, PrintData) |
(CmdResponse, BatchClose) |
(CmdResponse, BatchSummary) |
(CmdResponse, ItemDetail) |
(CmdResponse, BatchClear) |
(CmdResponse, ServerVersion |
(CmdResponse, GetPrePaidStripe)

)*>

<!-- CmdResponse Element -->

<!ELEMENT CmdResponse (

ResponseOrigin,
DSIXReturnCode,
CmdStatus,
TextResponse,
IpAddress?,
UserTraceData?,
SequenceNo?

)>

<!-- TranResponse Element -->

<!ELEMENT TranResponse (

MerchantID,
TerminalID?,
AcctNo,
ExpDate?,
CardType,
Selection?,
TranCode,
AuthCode?,
CaptureStatus?,
RefNo,
InvoiceNo?,
```

```
        OperatorID?,
        Memo?,
        Amount,
        AVSResult?,
        CVVResult?,
        AcqRefData?,
        PrePaidExp?,
        BankRespCode?,
        ISORespCode?,
        TranDate?,
        TranTime?,
    )>
```

```
<!-- ItemBalances Element -->
```

```
<!ELEMENT   ItemBalances (
    TotalPoints,
    TotalUnits,
    TotalPrice,
    TotalPoints2?,
    TotalUnits2?,
    TotalPrice2?,
    TotalPoints3?,
    TotalUnits3?,
    TotalPrice3?,
    TotalPoints4?,
    TotalUnits4?,
    TotalPrice4?,
    TotalPoints5?,
    TotalUnits5?,
    TotalPrice5?,
    TotalPoints6?,
    TotalUnits6?,
    TotalPrice6?,
    TotalPoints7?,
    TotalUnits7?,
    TotalPrice7?,
    TotalPoints8?,
    TotalUnits8?,
    TotalPrice8?
)>
```

```
<!-- PrintData Element -->
```

```
<!ELEMENT   PrintData (
    Line1,
    Line2,
    Line3,
    Line4,
    Line5,
    Line6,
    Line7,
)
```

```

        Line8,
        Line9,
        Line10,
        Line11,
        Line12,
        Line13
    )>

<!-- BatchClose Element -->

<!ELEMENT   BatchClose   (

        MerchantID,
        TerminalID?,
        BatchNo,
        BatchNumber?,
        BatchItemCount,
        NetBatchTotal,
        CreditPurchaseCount?,
        CreditPurchaseAmount?,
        CreditReturnCount?,
        CreditReturnAmount?,
        DebitPurchaseCount?,
        DebitPurchaseAmount?,
        DebitReturnCount?,
        DebitReturnAmount?,
        ControlNo?

    )>

<!-- BatchSummary Element -->

<!ELEMENT   BatchSummary (

        MerchantID,
        TerminalID?,
        BatchNo,
        BatchNumber?,
        BatchItemCount,
        NetBatchTotal,
        CreditPurchaseCount?,
        CreditPurchaseAmount?,
        CreditReturnCount?,
        CreditReturnAmount?,
        DebitPurchaseCount?,
        DebitPurchaseAmount?,
        DebitReturnCount?,
        DebitReturnAmount?

    )>

<!-- BatchClear Element -->

<!ELEMENT   BatchClear   (

        MerchantID,
        TerminalID?,

```

```

        BatchNo,
        BatchNumber?,
        BatchItemCount,
        ControlNo?
    )>

<!-- ServerVersion Element -->
<!ELEMENT   ServerVersion   (
        ProductName,
        ProductClass,
        Provider,
        ProductVersion
    )>

<!-- ItemDetail Element -->
<!ELEMENT   ItemDetail     (
        MerchantID,
        TerminalID?,
        BatchNo,
        TranDate?,
        TranTime?,
        AcctNo,
        ExpDate?,
        ItemAmount1,
        ItemAmount2?,
        AuthCode?,
        RefNo?
    )>

<!-- GetPrePaidStripe Element -->
<!ELEMENT   GetPrePaidStripe (
        PrePaidTrack2?,
        PrePaidAcctNo?
    )>

<!ELEMENT   Amount         (
        Purchase,
        Purchase1?,
        Purchase2?,
        Purchase3?,
        Purchase4?,
        Purchase5?,
        Purchase6?,
        Purchase7?,
        Purchase8?,
        CashBack?,
        Authorize?,

```

```

    Gratuity?,
    Tax?,
    FSAPrescription?,
    FSAVision?,
    FSAClinical?,
    FSADental?
  )>

```

```

<!ELEMENT Value (
  Points1,
  Points2?,
  Points3?,
  Points4?,
  Points5?,
  Points6?,
  Points7?,
  Points8?,
)

```

```

<!ELEMENT ResponseOrigin (#PCDATA) >
<!ELEMENT DSIXReturnCode (#PCDATA) >
<!ELEMENT TextResponse (#PCDATA) >
<!ELEMENT IPAddress (#PCDATA) >
<!ELEMENT MerchantID (#PCDATA) >
<!ELEMENT TerminalID (#PCDATA) >
<!ELEMENT SequenceNo (#PCDATA) >
<!ELEMENT AcctNo (#PCDATA) >
<!ELEMENT ExpDate (#PCDATA) >
<!ELEMENT CardType (#PCDATA) >
<!ELEMENT Selection (#PCDATA) >
<!ELEMENT TranCode (#PCDATA) >
<!ELEMENT AuthCode (#PCDATA) >
<!ELEMENT CaptureStatus (#PCDATA) >
<!ELEMENT RefNo (#PCDATA) >
<!ELEMENT InvoiceNo (#PCDATA) >
<!ELEMENT OperatorID (#PCDATA) >
<!ELEMENT Memo (#PCDATA) >
<!ELEMENT Purchase (#PCDATA) >
<!ELEMENT CashBack (#PCDATA) >
<!ELEMENT Authorize (#PCDATA) >
<!ELEMENT Gratuity (#PCDATA) >
<!ELEMENT Balance (#PCDATA) >
<!ELEMENT UserTraceData (#PCDATA) >
<!ELEMENT AVSResult (#PCDATA) >
<!ELEMENT CVVResult (#PCDATA) >
<!ELEMENT AcqRefData (#PCDATA) >
<!ELEMENT RecordNo (#PCDATA) >
<!ELEMENT PrePaidExp (#PCDATA) >
<!ELEMENT BankRespCode (#PCDATA) >
<!ELEMENT ISORespCode (#PCDATA) >
<!ELEMENT ControlNo (#PCDATA) >
<!ELEMENT TranDate (#PCDATA) >
<!ELEMENT TranTime (#PCDATA) >
<!ELEMENT ItemAmount1 (#PCDATA) >
<!ELEMENT ItemAmount2 (#PCDATA) >
<!ELEMENT BatchItemCount (#PCDATA) >
<!ELEMENT NetBatchTotal (#PCDATA) >

```

```
<!ELEMENT      CreditPurchaseCount      (#PCDATA) >
<!ELEMENT      CreditPurchaseAmount     (#PCDATA) >
<!ELEMENT      CreditReturnCount        (#PCDATA) >
<!ELEMENT      CreditReturnAmount       (#PCDATA) >
<!ELEMENT      DebitPurchaseCount        (#PCDATA) >
<!ELEMENT      DebitPurchaseAmount      (#PCDATA) >
<!ELEMENT      DebitReturnCount         (#PCDATA) >
<!ELEMENT      DebitReturnAmount        (#PCDATA) >
<!ELEMENT      BatchNo                   (#PCDATA) >
<!ELEMENT      ProductName               (#PCDATA) >
<!ELEMENT      ProductClass              (#PCDATA) >
<!ELEMENT      Provider                   (#PCDATA) >
<!ELEMENT      ProductVersion            (#PCDATA) >

]>

<RStream>
</RStream>
```

## 2.0 Credit XML Transaction Requests

### 2.1 Transaction: Credit – Sale

---

XML Template: **Credit Sale**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Credit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Sale</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <PartialAuth>PartialAuth</PartialAuth>
    <CardholderID>CardholderID</CardholderID>
    <LastFourCheck>LastFourCheck</LastFourCheck>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Tax>Tax</Tax>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <AVS>
      <Address>Address</Address>
      <Zip>ZIP</Zip>
    </AVS>
    <CVVData>CVVData</CVVData>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <TranInfo>
      <CustomerCode>CustomerCode</CustomerCode>
    </TranInfo>
  </Transaction>
</TStream>
```

## 2.2 Transaction: Credit - Return

---

XML Template: **Credit Return**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Credit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Return</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <CardholderID>CardholderID</CardholderID>
    <LastFourCheck>LastFourCheck</LastFourCheck>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>
```

## 2.3 Transaction: Credit - Void Sale

---

XML Template: **Credit Void Sale**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Credit</TranType>
    <CardType>CardType</CardType>
    <TranCode>VoidSale</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <CardholderID>CardholderID</CardholderID>
    <LastFourCheck>LastFourCheck</LastFourCheck>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
      <AcqRefData>AcqRefData</AcqRefData>
    </TranInfo>
  </Transaction>
</TStream>
```

## 2.4 Transaction: Credit - Void Sale By Record

---

XML Template: **Credit Void Sale By Record Number**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Credit</TranType>
    <CardType>CardType</CardType>
    <TranCode>VoidSaleByRecordNo</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <CardholderID>CardholderID</CardholderID>
    <LastFourCheck>LastFourCheck</LastFourCheck>
    <RecordNo>RecordNo</RecordNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>
```

## 2.5 Transaction: Credit - Void Return

---

XML Template: **Credit Void Return**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Credit</TranType>
    <CardType>CardType</CardType>
    <TranCode>VoidReturn</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <CardholderID>CardholderID</CardholderID>
    <LastFourCheck>LastFourCheck</LastFourCheck>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>
```

## 2.6 Transaction: Credit - Void Return By Record

---

XML Template: **Credit Void Return By Record Number**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Credit</TranType>
    <CardType>CardType</CardType>
    <TranCode>VoidReturnByRecordNo</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <CardholderID>CardholderID</CardholderID>
    <LastFourCheck>LastFourCheck</LastFourCheck>
    <RecordNo>RecordNo</RecordNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>
```

## 2.7 Transaction: Credit - AuthOnly

---

XML Template: **Credit AuthOnly**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IPAddress>999.999.999.999</IPAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Credit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>AuthOnly</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <CardholderID>CardholderID</CardholderID>
    <LastFourCheck>LastFourCheck</LastFourCheck>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
    </Amount>
    <AVS>
      <Address>Address</Address>
      <Zip>Zip</Zip>
    </AVS>
    <CVVData>CVVData</CVVData>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>
```

## 2.8 Transaction: Credit - PreAuth

---

XML Template: **Credit PreAuth**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Credit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>PreAuth</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <CardholderID>CardholderID</CardholderID>
    <LastFourCheck>LastFourCheck</LastFourCheck>
    <PartialAuth>PartialAuth</PartialAuth>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
    </Amount>
    <AVS>
      <Address>Address</Address>
      <Zip>Zip</Zip>
    </AVS>
    <CVVData>CVVData</CVVData>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>
```

## 2.9 Transaction: Credit – VoiceAuth (Force)

---

XML Template: **Credit VoiceAuth**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Credit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>VoiceAuth</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <CardholderID>CardholderID</CardholderID>
    <LastFourCheck>LastFourCheck</LastFourCheck>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
    </TranInfo>
  </Transaction>
</TStream>
```

## 2.10 Transaction: Credit - PreAuth Capture

---

XML Template: **Credit PreAuth Capture**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Credit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>PreAuthCapture</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <CardholderID>CardholderID</CardholderID>
    <LastFourCheck>LastFourCheck</LastFourCheck>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
      <Gratuity>Gratuity</Gratuity >
      <Tax>Tax</Tax >
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
      <AcqRefData>AcqRefData</AcqRefData>
      <CustomerCode>CustomerCode</CustomerCode>
    </TranInfo>
  </Transaction>
</TStream>
```

## 2.11 Transaction: Credit - Adjust

---

XML Template: **Credit Adjust**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Credit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Adjust</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <CardholderID>CardholderID</CardholderID>
    <LastFourCheck>LastFourCheck</LastFourCheck>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Gratuity>Gratuity</Gratuity>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
      <AcqRefData>AcqRefData</AcqRefData>
    </TranInfo>
  </Transaction>
</TStream>
```

## 2.12 Transaction: Credit – Adjust By Record

---

XML Template: **Credit Adjust By Record Number**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Credit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>AdjustByRecordNo</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <CardholderID>CardholderID</CardholderID>
    <LastFourCheck>LastFourCheck</LastFourCheck>
    <RecordNo>RecordNo</RecordNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Gratuity>Gratuity</Gratuity>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>
```

## 2.13 Transaction: Credit – Balance Inquiry

---

### XML Template: **Credit Balance Inquiry**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Credit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Balance</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <CardholderID>CardholderID</CardholderID>
    <LastFourCheck>LastFourCheck</LastFourCheck>
    <PartialAuth>Allow</PartialAuth>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
    </Amount>
    <AVS>
      <Address>Address</Address>
      <Zip>Zip</Zip>
    </AVS>
    <CVVData>CVVData</CVVData>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>
```

## 2.14 Transaction: Credit – Zero Auth (Card Check)

---

XML Template: **Credit Zero Auth**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Credit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>ZeroAuth</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <CardholderID>CardholderID</CardholderID>
    <LastFourCheck>LastFourCheck</LastFourCheck>
    <PartialAuth>Allow</PartialAuth>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
    </Amount>
    <AVS>
      <Address>Address</Address>
      <Zip>Zip</Zip>
    </AVS>
    <CVVData>CVVData</CVVData>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>
```

## 2.15 XML Transaction Response

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <TranResponse>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <AcctNo>AcctNo</AcctNo>
    <ExpDate>ExpDate</ExpDate>
    <CardType>CardType</CardType>
    <TranCode>TranCode</TranCode>
    <AuthCode>AuthCode</AuthCode>
    <AVSResult>AVSResult</AVSResult>
    <CVVResult>CVVResult</CVVResult>
    <VoucherNo>VoucherNo</VoucherNo>
    <CaptureStatus>CaptureStatus</CaptureStatus>
    <RefNo>RefNo</RefNo>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <OperatorID>OperatorID</OperatorID>
    <Memo>Memo</Memo>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
      <Gratuity>Gratuity</Gratuity>
      <CashBack>CashBack</CashBack>
      <Balance>Balance</Balance>
    </Amount>
    <AcqRefData>AcqRefData</AcqRefData>
    <RecordNo>RecordNo</RecordNo>
  </TranResponse>
  <IssueCurrency>IssueCurrency</IssueCurrency>
  <IssueCurrencyPreviousBalance>IssueCurrencyPreviousBalance</IssueCurrencyPreviousBalance>
  <IssueCurrencyEndingBalance>IssueCurrencyEndingBalance</IssueCurrencyEndingBalance>
  <ExchangeRate>ExchangeRate</ExchangeRate>
  <PrePaidExp>PrePaidExp</PrePaidExp>
</RStream>
```

### 3.0 Debit XML Transaction Requests

#### 3.1 Debit - Sale

---

XML Template: **Debit Sale**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Debit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Sale</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <CashBack>CashBack</CashBack>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Transaction>
</TStream>
```

## 3.2 Debit - Return

---

XML Template: **Debit Return**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Debit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Return</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Transaction>
</TStream>
```

### 3.3 Debit - Void Sale

---

XML Template: **Debit Void Sale**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Debit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>VoidSale</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <CashBack>CashBack</CashBack>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Transaction>
</TStream>
```

### 3.4 Debit - Void Return

---

XML Template: **Debit Void Return**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Debit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>VoidReturn</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Transaction>
</TStream>
```

### 3.5 XML Transaction Response

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <TranResponse>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <AcctNo>AcctNo</AcctNo>
    <ExpDate>ExpDate</ExpDate>
    <CardType>CardType</CardType>
    <TranCode>TranCode</TranCode>
    <AuthCode>AuthCode</AuthCode>
    <AVSResult>AVSResult</AVSResult>
    <CVVResult>CVVResult</CVVResult>
    <VoucherNo>VoucherNo</VoucherNo>
    <CaptureStatus>CaptureStatus</CaptureStatus>
    <RefNo>RefNo</RefNo>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <OperatorID>OperatorID</OperatorID>
    <Memo>Memo</Memo>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
      <Gratuity>Gratuity</Gratuity>
      <CashBack>CashBack</CashBack>
      <Balance>Balance</Balance>
    </Amount>
    <AcqRefData>AcqRefData</AcqRefData>
    <RecordNo>RecordNo</RecordNo>
  </TranResponse>
  <IssueCurrency>IssueCurrency</IssueCurrency>
  <IssueCurrencyPreviousBalance>IssueCurrencyPreviousBalance</IssueCurrencyPreviousBalance>
  <IssueCurrencyEndingBalance>IssueCurrencyEndingBalance</IssueCurrencyEndingBalance>
  <ExchangeRate>ExchangeRate</ExchangeRate>
  <PrePaidExp>PrePaidExp</PrePaidExp>
</RStream>
```

## 4.0 EBT (Electronic Benefits Transfer) XML Transaction Requests

### 4.1 EBT - Foodstamp Sale

---

XML Template: **EBT Foodstamp Sale**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>EBT</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>Foodstamp</CardType>
    <TranCode>Sale</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Transaction>
</TStream>
```

## 4.2 EBT - Foodstamp Return

---

XML Template: **EBT Foodstamp Return**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>EBT</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>Foodstamp</CardType>
    <TranCode>Return</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Transaction>
</TStream>
```

### 4.3 EBT - Cash Sale

---

XML Template: **EBT Cash Sale**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>EBT</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>Cash</CardType>
    <TranCode>Sale</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <CashBack>CashBack</CashBack>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Transaction>
</TStream>
```

## 4.4 EBT - Cash Return

---

XML Template: **EBT Cash Return**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>EBT</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>Cash</CardType>
    <TranCode>Return</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <CashBack>CashBack</CashBack>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Transaction>
</TStream>
```

## 4.5 EBT - Foodstamp Voucher - Manual Entry Only

---

XML Template: **EBT Foodstamp Voucher** (*Keyed* Account Input)

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>EBT</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>Foodstamp</CardType>
    <TranCode>Voucher</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
      <VoucherNo>VoucherNo</VoucherNo>
    </TranInfo>
  </Transaction>
</TStream>
```

## 4.6 EBT - Foodstamp Voucher - Return

---

XML Template: **EBT Foodstamp Voucher Return** (Keyed Account Input)

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>EBT</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>Foodstamp</CardType>
    <TranCode>VoucherReturn</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
      <VoucherNo>VoucherNo</VoucherNo>
    </TranInfo>
  </Transaction>
</TStream>
```

## 4.7 EBT - Foodstamp Balance

---

XML Template: **EBT Foodstamp Balance**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>EBT</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>Foodstamp</CardType>
    <TranCode>Balance</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>0.00</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>
```

## 4.8 EBT - Cash Balance

---

XML Template: **EBT Cash Balance**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>EBT</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>Cash</CardType>
    <TranCode>Balance</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>0.00</Purchase>
      <CashBack>CashBack</CashBack>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>
```

## 4.9 XML Transaction Response

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <TranResponse>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <AcctNo>AcctNo</AcctNo>
    <ExpDate>ExpDate</ExpDate>
    <CardType>CardType</CardType>
    <TranCode>TranCode</TranCode>
    <AuthCode>AuthCode</AuthCode>
    <AVSResult>AVSResult</AVSResult>
    <CVVResult>CVVResult</CVVResult>
    <VoucherNo>VoucherNo</VoucherNo>
    <CaptureStatus>CaptureStatus</CaptureStatus>
    <RefNo>RefNo</RefNo>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <OperatorID>OperatorID</OperatorID>
    <Memo>Memo</Memo>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
      <Gratuity>Gratuity</Gratuity>
      <CashBack>CashBack</CashBack>
      <Balance>Balance</Balance>
    </Amount>
    <AcqRefData>AcqRefData</AcqRefData>
    <RecordNo>RecordNo</RecordNo>
  </TranResponse>
  <IssueCurrency>IssueCurrency</IssueCurrency>
  <IssueCurrencyPreviousBalance>IssueCurrencyPreviousBalance</IssueCurrencyPreviousBalance>
  <IssueCurrencyEndingBalance>IssueCurrencyEndingBalance</IssueCurrencyEndingBalance>
  <ExchangeRate>ExchangeRate</ExchangeRate>
  <PrePaidExp>PrePaidExp</PrePaidExp>
</RStream>
```

## 5.0 FSA (Flexible Spend Account) XML Transaction Requests

### 5.1 FSA Credit Sale

---

XML Template: **FSA Sale**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType> Credit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>FSASale</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <FSAPrescription>FSAPrescription</FSAPrescription>
      <FSAVision>FSAVision</FSAVision>
      <FSAClinical>FSAClinical</FSAClinical>
      <FSADental>FSADental</FSADental>
    </Amount>
    <AVS>
      <Address>Address</Address>
      <Zip>Zip</Zip>
    </AVS>
    <CVVData>CVVData</CVVData>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>
```

## 5.2 Reverse FSA Credit Sale

---

XML Template: **Reverse FSA Sale**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Credit</TranType>
    <CardType>CardType</CardType>
    <TranCode>ReverseFSASale</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <FSAPrescription>FSAPrescription</FSAPrescription>
      <FSAVision>FSAVision</FSAVision>
      <FSAClinical>FSAClinical</FSAClinical>
      <FSADental>FSADental</FSADental>
    </Amount>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
      <AcqRefData>AcqRefData</AcqRefData>
    </TranInfo>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>
```

### 5.3 XML Transaction Response

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <TranResponse>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <AcctNo>AcctNo</AcctNo>
    <ExpDate>ExpDate</ExpDate>
    <CardType>CardType</CardType>
    <TranCode>TranCode</TranCode>
    <AuthCode>AuthCode</AuthCode>
    <AVSResult>AVSResult</AVSResult>
    <CVVResult>CVVResult</CVVResult>
    <VoucherNo>VoucherNo</VoucherNo>
    <CaptureStatus>CaptureStatus</CaptureStatus>
    <RefNo>RefNo</RefNo>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <OperatorID>OperatorID</OperatorID>
    <Memo>Memo</Memo>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
      <Gratuity>Gratuity</Gratuity>
      <CashBack>CashBack</CashBack>
      <Balance>Balance</Balance>
    </Amount>
    <AcqRefData>AcqRefData</AcqRefData>
    <RecordNo>RecordNo</RecordNo>
  </TranResponse>
  <IssueCurrency>IssueCurrency</IssueCurrency>
  <IssueCurrencyPreviousBalance>IssueCurrencyPreviousBalance</IssueCurrencyPreviousBalance>
  <IssueCurrencyEndingBalance>IssueCurrencyEndingBalance</IssueCurrencyEndingBalance>
  <ExchangeRate>ExchangeRate</ExchangeRate>
  <PrePaidExp>PrePaidExp</PrePaidExp>
</RStream>
```

## 6.0 PrePaid XML Transaction Requests

### 6.1 PrePaid - Issue

XML Template: **PrePaid Issue**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>PrePaid</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Issue</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
  </Transaction>
</TStream>
```

## 6.2 PrePaid – Void Issue

---

XML Template: **PrePaid VoidIssue**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>PrePaid</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>VoidIssue</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
    </TranInfo>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
  </Transaction>
</TStream>
```

## 6.3 PrePaid - Sale

---

XML Template: **PrePaid Sale**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>PrePaid</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Sale</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
  </Transaction>
</TStream>
```

## 6.4 PrePaid - Return

---

### XML Template: **PrePaid Return**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>PrePaid</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Return</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
  </Transaction>
</TStream>
```

## 6.5 PrePaid – Void Sale

---

XML Template: **PrePaid Void Sale**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>PrePaid</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>VoidSale</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
    </TranInfo>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
  </Transaction>
</TStream>
```

## 6.6 PrePaid – Void Return

---

XML Template: **PrePaid Void Return**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>PrePaid</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>VoidReturn</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
    </TranInfo>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
  </Transaction>
</TStream>
```

## 6.7 PrePaid - Reload

---

### XML Template: **PrePaid Reload**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>PrePaid</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Reload</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
  </Transaction>
</TStream>
```

## 6.8 PrePaid – Void Reload

---

XML Template: **PrePaid VoidReload**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>PrePaid</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>VoidReload</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
    </TranInfo>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
  </Transaction>
</TStream>
```

## 6.9 PrePaid – Balance

---

XML Template: **PrePaid Balance**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>PrePaid</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Balance</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
  </Transaction>
</TStream>
```

## 6.10 PrePaid - NoNSFSale

---

XML Template: **PrePaid NoNSFSale**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>PrePaid</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>NoNSFSale</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
  </Transaction>
</TStream>
```

## 6.11 PrePaid - CashOut

---

XML Template: **PrePaid CashOut**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>PrePaid</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>CashOut</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>0.00</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
  </Transaction>
</TStream>
```

## 6.12 PrePaid - GetPrePaidStripe

---

XML Template: **GetPrePaidStripe**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TranCode>GetPrePaidStripe</TranCode>
    <MinLen>MinLen</MinLen>
    <MaxLen>MaxLen</MaxLen>
    <Preamble>Preamble</Preamble>
    <PrePaidStripeTimeout>PPSTimeout</PrePaidStripeTimeout>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
  </Transaction>
</TStream>
```

### **GetPrePaidStripe Response – MSR Read**

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <GetPrePaidStripe>
    <PrePaidTrack2>PrePaidTrack2</PrePaidTrack2>
  </GetPrePaidStripe>
</RStream>
```

### **GetPrePaidStripe Response – Manual Entry**

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
  </CmdResponse>
</RStream>
```

```
<SequenceNo>SequenceNo</SequenceNo>  
</CmdResponse>  
<GetPrePaidStripe>  
  <PrePaidAcctNo>PrePaidAcctNo</PrePaidAcctNo>  
</GetPrePaidStripe>  
</RStream>
```

## 6.13 XML Transaction Response

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <TranResponse>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <AcctNo>AcctNo</AcctNo>
    <ExpDate>ExpDate</ExpDate>
    <CardType>CardType</CardType>
    <TranCode>TranCode</TranCode>
    <AuthCode>AuthCode</AuthCode>
    <AVSResult>AVSResult</AVSResult>
    <CVVResult>CVVResult</CVVResult>
    <VoucherNo>VoucherNo</VoucherNo>
    <CaptureStatus>CaptureStatus</CaptureStatus>
    <RefNo>RefNo</RefNo>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <OperatorID>OperatorID</OperatorID>
    <Memo>Memo</Memo>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
      <Gratuity>Gratuity</Gratuity>
      <CashBack>CashBack</CashBack>
      <Balance>Balance</Balance>
    </Amount>
    <AcqRefData>AcqRefData</AcqRefData>
    <RecordNo>RecordNo</RecordNo>
  </TranResponse>
  <IssueCurrency>IssueCurrency</IssueCurrency>
  <IssueCurrencyPreviousBalance>IssueCurrencyPreviousBalance</IssueCurrencyPreviousBalance>
  <IssueCurrencyEndingBalance>IssueCurrencyEndingBalance</IssueCurrencyEndingBalance>
  <ExchangeRate>ExchangeRate</ExchangeRate>
  <PrePaidExp>PrePaidExp</PrePaidExp>
</RStream>
```

## 7.0 Loyalty XML Transaction Requests

### 7.1 Loyalty - Issue

---

XML Template: **Loyalty Issue (Format 1)**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>1</Format>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Issue</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
    </Items>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
    <SequenceNo>SequenceNo</SequenceNo>
  </Transaction>
</TStream>
```

XML Template: **Loyalty Issue (Format 2)**

```
<?xml version="1.0"?>
<TStream>
```

```

<Transaction>
  <IpAddress>999.999.999.999</IpAddress>
  <IpPort>9100</IpPort>
  <MerchantID>MerchantID</MerchantID>
  <TerminalID>TerminalID</TerminalID>
  <OperatorID>OperatorID</OperatorID>
  <TranType>Loyalty</TranType>
  <Format>2</Format>
  <Duplicate>Override</Duplicate>
  <CardType>CardType</CardType>
  <TranCode>Issue</TranCode>
  <SecureDevice>ValidSecureDeviceID</SecureDevice>
  <ComPort>ComPort</ComPort>
  <InvoiceNo>InvoiceNo</InvoiceNo>
  <RefNo>RefNo</RefNo>
  <Account>
    <AcctNo>SecureDevice</AcctNo>
  </Account>
  <Amount>
    <Purchase>Purchase</Purchase>
  </Amount>
  <Items>
    <Points>Points</Points>
    <Units>Units</Units>
    <Price>Price</Price>
    <PromoID>PromoID</PromoID>
    <Desc>Desc</Desc>
    <Points2>Points2</Points2>
    <Units2>Units2</Units2>
    <Price2>Price2</Price2>
    <PromoID2>PromoID2</PromoID2>
    <Desc2>Desc2</Desc2>
    <Points3>Points3</Points3>
    <Units3>Units3</Units3>
    <Price3>Price3</Price3>
    <PromoID3>PromoID3</PromoID3>
    <Desc3>Desc3</Desc3>
    <Points4>Points4</Points4>
    <Units4>Units4</Units4>
    <Price4>Price4</Price4>
    <PromoID4>PromoID4</PromoID4>
    <Desc4>Desc4</Desc4>
    <Points5>Points5</Points5>
    <Units5>Units5</Units5>
    <Price5>Price5</Price5>
    <PromoID5>PromoID5</PromoID5>
    <Desc5>Desc5</Desc5>
    <Points6>Points6</Points6>
    <Units6>Units6</Units6>
    <Price6>Price6</Price6>
    <PromoID6>PromoID6</PromoID6>
    <Desc6>Desc6</Desc6>
    <Points7>Points7</Points7>
    <Units7>Units7</Units7>
    <Price7>Price7</Price7>
    <PromoID7>PromoID7</PromoID7>
    <Desc7>Desc7</Desc7>
    <Points8>Points8</Points8>
    <Units8>Units8</Units8>
  </Items>
</Transaction>

```

```
<Price8>Price8</Price8>
<PromoID8>PromoID8</PromoID8>
<Desc8>Desc8</Desc8>
</Items>
<DemographicInfo>
  <CustEmail>CustEmail</CustEmail>
  <CustName>CustName</CustName>
  <CustPhone>CustPhone</CustPhone>
  <CustAddr1>CustAddr1</CustAddr1>
  <CustAddr2>CustAddr2</CustAddr2>
  <CustCity>CustCity</CustCity>
  <CustState>CustState</CustState>
  <CustZip>CustZip</CustZip>
  <CustLanguage>CustLanguage</CustLanguage>
</DemographicInfo>
<SequenceNo>SequenceNo</SequenceNo>
</Transaction>
</TStream>
```

## 7.2 Loyalty - Add

---

XML Template: **Loyalty Add (Format 1)**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>1</Format>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Add</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
    </Items>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
    <SequenceNo>SequenceNo</SequenceNo>
  </Transaction>
</TStream>
```

XML Template: **Loyalty Add (Format 2)**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
```

```

<IpAddress>999.999.999.999</IpAddress>
<IpPort>9100</IpPort>
<MerchantID>MerchantID</MerchantID>
<TerminalID>TerminalID</TerminalID>
<OperatorID>OperatorID</OperatorID>
<TranType>Loyalty</TranType>
<Format>2</Format>
<Duplicate>Override</Duplicate>
<CardType>LOYALTY</CardType>
<TranCode>Add</TranCode>
<SecureDevice>ValidSecureDeviceID</SecureDevice>
<ComPort>ComPort</ComPort>
<InvoiceNo>InvoiceNo</InvoiceNo>
<RefNo>RefNo</RefNo>
<Account>
  <AcctNo>SecureDevice</AcctNo>
</Account>
<Amount>
  <Purchase>Purchase</Purchase>
</Amount>
<Items>
  <Points>Points</Points>
  <Units>Units</Units>
  <Price>Price</Price>
  <PromoID>PromoID</PromoID>
  <Desc>Desc</Desc>
  <Points2>Points2</Points2>
  <Units2>Units2</Units2>
  <Price2>Price2</Price2>
  <PromoID2>PromoID2</PromoID2>
  <Desc2>Desc2</Desc2>
  <Points3>Points3</Points3>
  <Units3>Units3</Units3>
  <Price3>Price3</Price3>
  <PromoID3>PromoID3</PromoID3>
  <Desc3>Desc3</Desc3>
  <Points4>Points4</Points4>
  <Units4>Units4</Units4>
  <Price4>Price4</Price4>
  <PromoID4>PromoID4</PromoID4>
  <Desc4>Desc4</Desc4>
  <Points5>Points5</Points5>
  <Units5>Units5</Units5>
  <Price5>Price5</Price5>
  <PromoID5>PromoID5</PromoID5>
  <Desc5>Desc5</Desc5>
  <Points6>Points6</Points6>
  <Units6>Units6</Units6>
  <Price6>Price6</Price6>
  <PromoID6>PromoID6</PromoID6>
  <Desc6>Desc6</Desc6>
  <Points7>Points7</Points7>
  <Units7>Units7</Units7>
  <Price7>Price7</Price7>
  <PromoID7>PromoID7</PromoID7>
  <Desc7>Desc7</Desc7>
  <Points8>Points8</Points8>
  <Units8>Units8</Units8>
  <Price8>Price8</Price8>

```

```
<PromoID8>PromoID8</PromoID8>
<Desc8>Desc8</Desc8>
</Items>
<DemographicInfo>
  <CustEmail>CustEmail</CustEmail>
  <CustName>CustName</CustName>
  <CustPhone>CustPhone</CustPhone>
  <CustAddr1>CustAddr1</CustAddr1>
  <CustAddr2>CustAddr2</CustAddr2>
  <CustCity>CustCity</CustCity>
  <CustState>CustState</CustState>
  <CustZip>CustZip</CustZip>
  <CustLanguage>CustLanguage</CustLanguage>
</DemographicInfo>
<SequenceNo>SequenceNo</SequenceNo>
</Transaction>
</TStream>
```

### 7.3 Loyalty - Subtract

---

XML Template: **Loyalty Subtract** (*Format 1*)

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>1</Format>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Subtract</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
    </Items>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
    <SequenceNo>SequenceNo</SequenceNo>
  </Transaction>
</TStream>
```

XML Template: **Loyalty Subtract** (*Format 2*)

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
```

```

<MerchantID>MerchantID</MerchantID>
<TerminalID>TerminalID</TerminalID>
<OperatorID>OperatorID</OperatorID>
<TranType>Loyalty</TranType>
<Format>2</Format>
<Duplicate>Override</Duplicate>
<CardType>LOYALTY</CardType>
<TranCode>Subtract</TranCode>
<SecureDevice>ValidSecureDeviceID</SecureDevice>
<ComPort>ComPort</ComPort>
<InvoiceNo>InvoiceNo</InvoiceNo>
<RefNo>RefNo</RefNo>
<Account>
  <AcctNo>SecureDevice</AcctNo>
</Account>
<Amount>
  <Purchase>Purchase</Purchase>
</Amount>
<Items>
  <Points>Points</Points>
  <Units>Units</Units>
  <Price>Price</Price>
  <PromoID>PromoID</PromoID>
  <Desc>Desc</Desc>
  <Points2>Points2</Points2>
  <Units2>Units2</Units2>
  <Price2>Price2</Price2>
  <PromoID2>PromoID2</PromoID2>
  <Desc2>Desc2</Desc2>
  <Points3>Points3</Points3>
  <Units3>Units3</Units3>
  <Price3>Price3</Price3>
  <PromoID3>PromoID3</PromoID3>
  <Desc3>Desc3</Desc3>
  <Points4>Points4</Points4>
  <Units4>Units4</Units4>
  <Price4>Price4</Price4>
  <PromoID4>PromoID4</PromoID4>
  <Desc4>Desc4</Desc4>
  <Points5>Points5</Points5>
  <Units5>Units5</Units5>
  <Price5>Price5</Price5>
  <PromoID5>PromoID5</PromoID5>
  <Desc5>Desc5</Desc5>
  <Points6>Points6</Points6>
  <Units6>Units6</Units6>
  <Price6>Price6</Price6>
  <PromoID6>PromoID6</PromoID6>
  <Desc6>Desc6</Desc6>
  <Points7>Points7</Points7>
  <Units7>Units7</Units7>
  <Price7>Price7</Price7>
  <PromoID7>PromoID7</PromoID7>
  <Desc7>Desc7</Desc7>
  <Points8>Points8</Points8>
  <Units8>Units8</Units8>
  <Price8>Price8</Price8>
  <PromoID8>PromoID8</PromoID8>
  <Desc8>Desc8</Desc8>

```

```
</Items>
<DemographicInfo>
  <CustEmail>CustEmail</CustEmail>
  <CustName>CustName</CustName>
  <CustPhone>CustPhone</CustPhone>
  <CustAddr1>CustAddr1</CustAddr1>
  <CustAddr2>CustAddr2</CustAddr2>
  <CustCity>CustCity</CustCity>
  <CustState>CustState</CustState>
  <CustZip>CustZip</CustZip>
  <CustLanguage>CustLanguage</CustLanguage>
</DemographicInfo>
<SequenceNo>SequenceNo</SequenceNo>
</Transaction>
</TStream>
```

## 7.4 Loyalty - VoidIssue

---

XML Template: **Loyalty VoidIssue** (*Format 1*)

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>1</Format>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>VoidIssue</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
    </Items>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
    </TranInfo>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
    <SequenceNo>SequenceNo</SequenceNo>
  </Transaction>
</TStream>
```

XML Template: **Loyalty VoidIssue** (*Format 2*)

```

<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>2</Format>
    <Duplicate>Override</Duplicate>
    <CardType>LOYALTY</CardType>
    <TranCode>VoidIssue</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
      <Points2>Points2</Points2>
      <Units2>Units2</Units2>
      <Price2>Price2</Price2>
      <PromoID2>PromoID2</PromoID2>
      <Desc2>Desc2</Desc2>
      <Points3>Points3</Points3>
      <Units3>Units3</Units3>
      <Price3>Price3</Price3>
      <PromoID3>PromoID3</PromoID3>
      <Desc3>Desc3</Desc3>
      <Points4>Points4</Points4>
      <Units4>Units4</Units4>
      <Price4>Price4</Price4>
      <PromoID4>PromoID4</PromoID4>
      <Desc4>Desc4</Desc4>
      <Points5>Points5</Points5>
      <Units5>Units5</Units5>
      <Price5>Price5</Price5>
      <PromoID5>PromoID5</PromoID5>
      <Desc5>Desc5</Desc5>
      <Points6>Points6</Points6>
      <Units6>Units6</Units6>
      <Price6>Price6</Price6>
      <PromoID6>PromoID6</PromoID6>
      <Desc6>Desc6</Desc6>
      <Points7>Points7</Points7>
      <Units7>Units7</Units7>
      <Price7>Price7</Price7>
      <PromoID7>PromoID7</PromoID7>
    </Items>
  </Transaction>
</TStream>

```

```
<Desc7>Desc7</Desc7>
<Points8>Points8</Points8>
<Units8>Units8</Units8>
<Price8>Price8</Price8>
<PromoID8>PromoID8</PromoID8>
<Desc8>Desc8</Desc8>
</Items>
<TranInfo>
  <AuthCode>AuthCode</AuthCode>
</TranInfo>
<DemographicInfo>
  <CustEmail>CustEmail</CustEmail>
  <CustName>CustName</CustName>
  <CustPhone>CustPhone</CustPhone>
  <CustAddr1>CustAddr1</CustAddr1>
  <CustAddr2>CustAddr2</CustAddr2>
  <CustCity>CustCity</CustCity>
  <CustState>CustState</CustState>
  <CustZip>CustZip</CustZip>
  <CustLanguage>CustLanguage</CustLanguage>
</DemographicInfo>
<SequenceNo>SequenceNo</SequenceNo>
</Transaction>
</TStream>
```

## 7.5 Loyalty - VoidAdd

---

XML Template: **Loyalty VoidAdd (Format 1)**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>1</Format>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>VoidAdd</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
    </Items>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
    </TranInfo>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
    <SequenceNo>SequenceNo</SequenceNo>
  </Transaction>
</TStream>
```

XML Template: **Loyalty VoidAdd (Format 2)**

```

<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>2</Format>
    <Duplicate>Override</Duplicate>
    <CardType>LOYALTY</CardType>
    <TranCode>VoidAdd</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
      <Points2>Points2</Points2>
      <Units2>Units2</Units2>
      <Price2>Price2</Price2>
      <PromoID2>PromoID2</PromoID2>
      <Desc2>Desc2</Desc2>
      <Points3>Points3</Points3>
      <Units3>Units3</Units3>
      <Price3>Price3</Price3>
      <PromoID3>PromoID3</PromoID3>
      <Desc3>Desc3</Desc3>
      <Points4>Points4</Points4>
      <Units4>Units4</Units4>
      <Price4>Price4</Price4>
      <PromoID4>PromoID4</PromoID4>
      <Desc4>Desc4</Desc4>
      <Points5>Points5</Points5>
      <Units5>Units5</Units5>
      <Price5>Price5</Price5>
      <PromoID5>PromoID5</PromoID5>
      <Desc5>Desc5</Desc5>
      <Points6>Points6</Points6>
      <Units6>Units6</Units6>
      <Price6>Price6</Price6>
      <PromoID6>PromoID6</PromoID6>
      <Desc6>Desc6</Desc6>
      <Points7>Points7</Points7>
      <Units7>Units7</Units7>
      <Price7>Price7</Price7>
      <PromoID7>PromoID7</PromoID7>
      <Desc7>Desc7</Desc7>
    </Items>
  </Transaction>
</TStream>

```

```
<Points8>Points8</Points8>
<Units8>Units8</Units8>
<Price8>Price8</Price8>
<PromoID8>PromoID8</PromoID8>
<Desc8>Desc8</Desc8>
</Items>
<TranInfo>
  <AuthCode>AuthCode</AuthCode>
</TranInfo>
<DemographicInfo>
  <CustEmail>CustEmail</CustEmail>
  <CustName>CustName</CustName>
  <CustPhone>CustPhone</CustPhone>
  <CustAddr1>CustAddr1</CustAddr1>
  <CustAddr2>CustAddr2</CustAddr2>
  <CustCity>CustCity</CustCity>
  <CustState>CustState</CustState>
  <CustZip>CustZip</CustZip>
  <CustLanguage>CustLanguage</CustLanguage>
</DemographicInfo>
<SequenceNo>SequenceNo</SequenceNo>
</Transaction>
</TStream>
```

## 7.6 Loyalty - VoidSubtract

---

XML Template: **Loyalty VoidSubtract** (*Format 1*)

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>1</Format>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>VoidSubtract</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
    </Items>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
    </TranInfo>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
    <SequenceNo>SequenceNo</SequenceNo>
  </Transaction>
</TStream>
```

XML Template: **Loyalty VoidSubtract** (*Format 2*)

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>2</Format>
    <Duplicate>Override</Duplicate>
    <CardType>LOYALTY</CardType>
    <TranCode>VoidSubtract</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
      <Points2>Points2</Points2>
      <Units2>Units2</Units2>
      <Price2>Price2</Price2>
      <PromoID2>PromoID2</PromoID2>
      <Desc2>Desc2</Desc2>
      <Points3>Points3</Points3>
      <Units3>Units3</Units3>
      <Price3>Price3</Price3>
      <PromoID3>PromoID3</PromoID3>
      <Desc3>Desc3</Desc3>
      <Points4>Points4</Points4>
      <Units4>Units4</Units4>
      <Price4>Price4</Price4>
      <PromoID4>PromoID4</PromoID4>
      <Desc4>Desc4</Desc4>
      <Points5>Points5</Points5>
      <Units5>Units5</Units5>
      <Price5>Price5</Price5>
      <PromoID5>PromoID5</PromoID5>
      <Desc5>Desc5</Desc5>
      <Points6>Points6</Points6>
      <Units6>Units6</Units6>
      <Price6>Price6</Price6>
      <PromoID6>PromoID6</PromoID6>
      <Desc6>Desc6</Desc6>
      <Points7>Points7</Points7>
      <Units7>Units7</Units7>
```

```
<Price7>Price7</Price7>
<PromoID7>PromoID7</PromoID7>
<Desc7>Desc7</Desc7>
<Points8>Points8</Points8>
<Units8>Units8</Units8>
<Price8>Price8</Price8>
<PromoID8>PromoID8</PromoID8>
<Desc8>Desc8</Desc8>
</Items>
<TranInfo>
  <AuthCode>AuthCode</AuthCode>
</TranInfo>
<DemographicInfo>
  <CustEmail>CustEmail</CustEmail>
  <CustName>CustName</CustName>
  <CustPhone>CustPhone</CustPhone>
  <CustAddr1>CustAddr1</CustAddr1>
  <CustAddr2>CustAddr2</CustAddr2>
  <CustCity>CustCity</CustCity>
  <CustState>CustState</CustState>
  <CustZip>CustZip</CustZip>
  <CustLanguage>CustLanguage</CustLanguage>
</DemographicInfo>
<SequenceNo>SequenceNo</SequenceNo>
</Transaction>
</TStream>
```

## 7.7 Loyalty - Balance

---

XML Template: **Loyalty Balance** (*Format 1*)

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>1</Format>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Balance</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
    </Items>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
    <SequenceNo>SequenceNo</SequenceNo>
  </Transaction>
</TStream>
```

XML Template: **Loyalty Balance** (*Format 2*)

```
<?xml version="1.0"?>
<TStream>
```

```

<Transaction>
  <IpAddress>999.999.999.999</IpAddress>
  <IpPort>9100</IpPort>
  <MerchantID>MerchantID</MerchantID>
  <TerminalID>TerminalID</TerminalID>
  <OperatorID>OperatorID</OperatorID>
  <TranType>Loyalty</TranType>
  <Format>2</Format>
  <Duplicate>Override</Duplicate>
  <CardType>LOYALTY</CardType>
  <TranCode>Balance</TranCode>
  <SecureDevice>SecureDevice</SecureDevice>
  <ComPort>ComPort</ComPort>
  <InvoiceNo>InvoiceNo</InvoiceNo>
  <RefNo>RefNo</RefNo>
  <Account>
    <AcctNo>SecureDevice</AcctNo>
  </Account>
  <Amount>
    <Purchase>Purchase</Purchase>
  </Amount>
  <Items>
    <Points>Points</Points>
    <Units>Units</Units>
    <Price>Price</Price>
    <PromoID>PromoID</PromoID>
    <Desc>Desc</Desc>
    <Points2>Points2</Points2>
    <Units2>Units2</Units2>
    <Price2>Price2</Price2>
    <PromoID2>PromoID2</PromoID2>
    <Desc2>Desc2</Desc2>
    <Points3>Points3</Points3>
    <Units3>Units3</Units3>
    <Price3>Price3</Price3>
    <PromoID3>PromoID3</PromoID3>
    <Desc3>Desc3</Desc3>
    <Points4>Points4</Points4>
    <Units4>Units4</Units4>
    <Price4>Price4</Price4>
    <PromoID4>PromoID4</PromoID4>
    <Desc4>Desc4</Desc4>
    <Points5>Points5</Points5>
    <Units5>Units5</Units5>
    <Price5>Price5</Price5>
    <PromoID5>PromoID5</PromoID5>
    <Desc5>Desc5</Desc5>
    <Points6>Points6</Points6>
    <Units6>Units6</Units6>
    <Price6>Price6</Price6>
    <PromoID6>PromoID6</PromoID6>
    <Desc6>Desc6</Desc6>
    <Points7>Points7</Points7>
    <Units7>Units7</Units7>
    <Price7>Price7</Price7>
    <PromoID7>PromoID7</PromoID7>
    <Desc7>Desc7</Desc7>
    <Points8>Points8</Points8>
    <Units8>Units8</Units8>
  </Items>
</Transaction>

```

```
<Price8>Price8</Price8>
<PromoID8>PromoID8</PromoID8>
<Desc8>Desc8</Desc8>
</Items>
<DemographicInfo>
  <CustEmail>CustEmail</CustEmail>
  <CustName>CustName</CustName>
  <CustPhone>CustPhone</CustPhone>
  <CustAddr1>CustAddr1</CustAddr1>
  <CustAddr2>CustAddr2</CustAddr2>
  <CustCity>CustCity</CustCity>
  <CustState>CustState</CustState>
  <CustZip>CustZip</CustZip>
  <CustLanguage>CustLanguage</CustLanguage>
</DemographicInfo>
<SequenceNo>SequenceNo</SequenceNo>
</Transaction>
</TStream>
```

## 7.8 AddAlias Request

---

XML Template: **AddAlias Request**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>LoyaltyAdmin</TranType>
    <TranCode>AddAlias</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <Account>
      <Track2>Track2</Track2>
      <AliasAcctNo>AliasAcctNo</AliasAcctNo>
    </Account>
  </Admin>
</TStream>
```

## 7.9 AddAlias Response

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <AddAlias>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
  </AddAlias>
</RStream>
```

## 7.10 RemoveAlias Request

---

XML Template: **RemoveAlias Request**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>LoyaltyAdmin</TranType>
    <TranCode>RemoveAlias</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <Account>
      <Track2>Track2</Track2>
      <AliasAcctNo>AliasAcctNo</AliasAcctNo>
    </Account>
  </Admin>
</TStream>
```

## 7.11 RemoveAlias Response

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <RemoveAlias>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
  </RemoveAlias>
</RStream>
```

## 7.12 NewAliasAcct Request

---

XML Template: **NewAliasAcct Request**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>LoyaltyAdmin</TranType>
    <TranCode>NewAliasAcct</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <Account>
      <AliasAcctNo>AliasAcctNo</AliasAcctNo>
    </Account>
  </Admin>
</TStream>
```

### 7.13 NewAliasAcct Response

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <NewAliasAcct>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <AcctNo>AcctNo</AcctNo>
    <PIN>PIN</PIN>
    <OperatorID>OperatorID</OperatorID>
  </NewAliasAcct>
</RStream>
```

## 7.14 Transfer Request

---

XML Template: **Transfer Request**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>LoyaltyAdmin</TranType>
    <TranCode>Transfer</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <Account>
      <FromTrack2>FromTrack2</FromTrack2>
      <ToTrack2>ToTrack2</ToTrack2>
    </Account>
  </Admin>
</TStream>
```

## 7.16 Transfer Response

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <Transfer>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
  </Transfer>
</RStream>
```

## 7.17 Loyalty Transaction Responses

---

### Loyalty Response - Format 1

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <TranResponse>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <AcctNo>AcctNo</AcctNo>
    <ExpDate>ExpDate</ExpDate>
    <CardType>CardType</CardType>
    <TranCode>TranCode</TranCode>
    <AuthCode>AuthCode</AuthCode>
    <CaptureStatus>CaptureStatus</CaptureStatus>
    <RefNo>RefNo</RefNo>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <OperatorID>OperatorID</OperatorID>
    <Format>1</Format>
    <Memo>Memo</Memo>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
    </Amount>
    <LoyaltyExp>LoyaltyExp</LoyaltyExp>
    <Items>
      <PointsBalance>PointsBalance</PointsBalance>
      <UnitsBalance>UnitsBalance</UnitsBalance>
      <PriceBalance>PriceBalance</PriceBalance>
    </Items>
  </TranResponse>
</RStream>
```

## Loyalty Response - Format 2

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <TranResponse>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <AcctNo>AcctNo</AcctNo>
    <ExpDate>ExpDate</ExpDate>
    <CardType>CardType</CardType>
    <TranCode>TranCode</TranCode>
    <AuthCode>AuthCode</AuthCode>
    <CaptureStatus>CaptureStatus</CaptureStatus>
    <RefNo>RefNo</RefNo>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <OperatorID>OperatorID</OperatorID>
    <Format>2</Format>
    <Memo>Memo</Memo>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
    </Amount>
    <LoyaltyExp>LoyaltyExp</LoyaltyExp>
    <Items>
      <PointsBalance>PointsBalance</PointsBalance>
      <UnitsBalance>UnitsBalance</UnitsBalance>
      <PriceBalance>PriceBalance</PriceBalance>
      <PointsBalance2>PointsBalance2</PointsBalance2>
      <UnitsBalance2>UnitsBalance2</UnitsBalance2>
      <PriceBalance2>PriceBalance2</PriceBalance2>
      <PointsBalance3>PointsBalance3</PointsBalance3>
      <UnitsBalance3>UnitsBalance3</UnitsBalance3>
      <PriceBalance3>PriceBalance3</PriceBalance3>
      <PointsBalance4>PointsBalance4</PointsBalance4>
      <UnitsBalance4>UnitsBalance4</UnitsBalance4>
      <PriceBalance4>PriceBalance4</PriceBalance4>
      <PointsBalance5>PointsBalance5</PointsBalance5>
      <UnitsBalance5>UnitsBalance5</UnitsBalance5>
      <PriceBalance5>PriceBalance5</PriceBalance5>
      <PointsBalance6>PointsBalance6</PointsBalance6>
      <UnitsBalance6>UnitsBalance6</UnitsBalance6>
      <PriceBalance6>PriceBalance6</PriceBalance6>
      <PointsBalance7>PointsBalance7</PointsBalance7>
      <UnitsBalance7>UnitsBalance7</UnitsBalance7>
      <PriceBalance7>PriceBalance7</PriceBalance7>
      <PointsBalance8>PointsBalance8</PointsBalance8>
      <UnitsBalance8>UnitsBalance8</UnitsBalance8>
      <PriceBalance8>PriceBalance8</PriceBalance8>
    </Items>
  </TranResponse>
</RStream>
```

```
<TotalPointsBalance>TotalPointsBalance</TotalPointsBalance>  
<TotalUnitsBalance>TotalUnitsBalance</TotalUnitsBalance>  
<TotalPriceBalance>TotalPriceBalance</TotalPriceBalance>  
<WriteReceipt>Receipt Print Data</WriteReceipt>  
</TranResponse>  
</RStream>
```

## 8.0 Card Lookup Requests

### 8.1 Card Capabilities – BIN Lookup

---

XML Template: **CardLookup**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>CardLookup</TranType>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
  </Transaction>
</TStream>
```

## 8.2 Card Lookup Response:

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <TranResponse>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <AcctNo>AcctNo</AcctNo>
    <CardUsage>CardUsage</CardUsage>
    <CardType>CardType</CardType>
    <TranType>TranType</TranType>
  </TranResponse>
</RStream>
```

## 9.0 Payair Mobile Payment Transactions

### 9.01 Payair - CheckOut

---

XML Template: **CheckOut**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9040</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>MPayment</TranType>
    <TranCode>CheckOut</TranCode>
    <SecureDevice>NONE</SecureDevice>
    <ComPort>0</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
  </Transaction>
</TStream>
```

## 9.02 Payair - CheckOutStatus

---

XML Template: **CheckOutStatus**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9040</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>MPayment</TranType>
    <TranCode>CheckOutStatus</TranCode>
    <SecureDevice>NONE</SecureDevice>
    <ComPort>0</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
  </Transaction>
</TStream>
```

### 9.03 Payair - VoidCheckOut

---

XML Template: **VoidCheckOut**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9040</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>MPayment</TranType>
    <TranCode>VoidCheckOut</TranCode>
    <SecureDevice>NONE</SecureDevice>
    <ComPort>0</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
  </Transaction>
</TStream>
```

## 9.1 IPTranLT Peripheral Control Commands

### 9.11 Cash Drawer Open

---

XML Request Template: **DrawerOpen**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>DrawerOpen</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Admin>
</TStream>
```

XML Response Template: **DrawerOpen**

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
  </CmdResponse>
  <MerchantID>MerchantID</MerchantID>
</RStream>
```

## 9.12 Cash Drawer Status

---

XML Request Template: **DrawerStatus**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>DrawerStatus</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Admin>
</TStream>
```

XML Response Template: **DrawerStatus**

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
  </CmdResponse>
  <MerchantID>MerchantID</MerchantID>
  <DrawerStatus>DrawerStatus</DrawerStatus>
</RStream>
```

### 9.13 Put Text Message on Pole Display

---

#### XML Request Template: **PoleDisplay**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>PoleDisplay</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <DisplayData>
      <Line1>Line1</Line1>
      <Line2>Line2</Line2>
    </DisplayData>
  </Admin>
</Tstream>
```

#### XML Response Template: **PoleDisplay**

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
  </CmdResponse>
  <MerchantID>MerchantID</MerchantID>
</RStream>
```

## 9.14 Print Receipt

---

### XML Request Template: **PrintReceipt**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>PrintReceipt</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <PrintData>
      <Line1>Line1</Line1>
      <Line2>Line2</Line2>
      .
      .
      <LineN>LineN</LineN>
    </PrintData>
  </Admin>
</TStream>
```

### XML Response Template: **PrintReceipt**

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
  </CmdResponse>
  <MerchantID>MerchantID</MerchantID>
</RStream>
```

## 9.15 Print Test

---

### XML Request Template: **PrintTest**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>PrintTest</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Admin>
</TStream>
```

### XML Response Template: **PrintTest**

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
  </CmdResponse>
  <MerchantID>MerchantID</MerchantID>
</RStream>
```

## 9.16 Scan a Bar Code

---

### XML Request Template: **ScanItem**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>ScanItem</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Admin>
</TStream>
```

### XML Response Template: **ScanItem**

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
  </CmdResponse>
  <MerchantID>MerchantID</MerchantID>
  <ItemNo>ItemNo</ItemNo>
</RStream>
```

## 9.17 Load an IPTranLT Application

---

### XML Request Template: **LoadApp**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>LoadApp</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Admin>
</Tstream>
```

### XML Response Template: **LoadApp**

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
  </CmdResponse>
  <MerchantID>MerchantID</MerchantID>
</RStream>
```

## 9.18 Load IPTranLT Parameters

---

### XML Request Template: **LoadParams**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>LoadParams</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Admin>
</TStream>
```

### XML Response Template: **LoadParams**

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
  </CmdResponse>
  <MerchantID>MerchantID</MerchantID>
</RStream>
```

## 9.19 Set IPTranLT Test Mode

---

### XML Request Template: **TestMode**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>TestMode</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Admin>
</Tstream>
```

### XML Response Template: **TestMode**

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
  </CmdResponse>
  <MerchantID>MerchantID</MerchantID>
</RStream>
```

## 9.20 Send Tran AT Command in Pass Through Mode

---

### XML Request Template: **PassThrough**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>PassThrough</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <ATCommand>ATCommand</ATCommand>
  </Admin>
</Tstream>
```

### XML Response Template: **PassThrough**

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
  </CmdResponse>
  <MerchantID>MerchantID</MerchantID>
  <TranResponse>
    <LineNNN>TranResponseText</LineNNN>
  </TranResponse>
</RStream>
```

## 10.0 Check Authorization XML Transaction Requests

### 10.01 Check Authorization - Driver License - Manual Entry

---

XML Template: **Check Authorization DL Manual** (*Keyed* Account Input)

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>CheckAuth</TranType>
    <CardType>PersonalCheck</CardType>
    <TranCode>Sale</TranCode>
    <SecureDevice>NONE</SecureDevice>
    <ComPort>0</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
      <DriversLicense>DriversLicense</DriversLicense>
      <StateCode>StateCode</StateCode>
      <DateOfBirth>DateOfBirth</DateOfBirth>
      <SequenceNo>SequenceNo</SequenceNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>
```

## 10.02 Check Authorization - MICR - Reader Entry

---

XML Template: **Check Authorization MICR Reader** (MICR Account Input)

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>CheckAuth</TranType>
    <CardType>PersonalCheck</CardType>
    <TranCode>Sale</TranCode>
    <SecureDevice>NONE</SecureDevice>
    <ComPort>0</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
      <MICR>Reader</MICR>
      <RoutingNo>RoutingNo</RoutingNo>
      <CheckingAcctNo>CheckingAcctNumber</CheckingAcctNo>
      <SequenceNo>SequenceNo</SequenceNo>
      <StateCode>StateCode</StateCode>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>
```

### 10.03 Check Authorization - MICR - Manual Entry

---

XML Template: **Check Authorization MICR Keyed** (*Keyed* Account Input)

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>CheckAuth</TranType>
    <CardType>PersonalCheck</CardType>
    <TranCode>Sale</TranCode>
    <SecureDevice>NONE</SecureDevice>
    <ComPort>0</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
      <MICR>Keyed</MICR>
      <RoutingNo>RoutingNo</RoutingNo>
      <CheckingAcctNo>CheckingAcctNumber</CheckingAcctNo>
      <SequenceNo>SequenceNo</SequenceNo>
      <StateCode>StateCode</StateCode>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>
```

## 10.04 E- Check Sale - MICR - Reader Entry

---

XML Template: **E-Check Sale MICR Reader** (*MICR* Account Input)

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>ECheck</TranType>
    <CardType>PersonalCheck</CardType>
    <TranCode>Sale</TranCode>
    <SecureDevice>NONE</SecureDevice>
    <ComPort>0</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
      <MICR>Reader</MICR>
      <RawTOAD>Raw MICR in TOAD format</RawTOAD>
      <DriversLicense>DriversLicense</DriversLicense>
      <StateCode>StateCode</StateCode>
      <PhoneNo>PhoneNo</PhoneNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Transaction>
</TStream>
```

## 10.05 E- Check Void Sale - MICR - Reader Entry

---

XML Template: **E-Check Void Sale MICR Reader** (MICR Account Input)

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>ECheck</TranType>
    <CardType>PersonalCheck</CardType>
    <TranCode>VoidSale</TranCode>
    <SecureDevice>NONE</SecureDevice>
    <ComPort>0</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
      <MICR>Reader</MICR>
      <RawTOAD>Raw MICR in TOAD format</RawTOAD>
      <DriversLicense>DriversLicense</DriversLicense>
      <StateCode>StateCode</StateCode>
      <PhoneNo>PhoneNo</PhoneNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
      <AcqRefData>AcqRefData</AcqRefData>
    </TranInfo>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Transaction>
</TStream>
```

## 10.02 XML Transaction Response

---

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <TranResponse>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <AcctNo>AcctNo</AcctNo>
    <ExpDate>ExpDate</ExpDate>
    <CardType>CardType</CardType>
    <TranCode>TranCode</TranCode>
    <AuthCode>AuthCode</AuthCode>
    <AVSResult>AVSResult</AVSResult>
    <CVVResult>CVVResult</CVVResult>
    <VoucherNo>VoucherNo</VoucherNo>
    <CaptureStatus>CaptureStatus</CaptureStatus>
    <RefNo>RefNo</RefNo>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <OperatorID>OperatorID</OperatorID>
    <Memo>Memo</Memo>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
      <Gratuity>Gratuity</Gratuity>
      <CashBack>CashBack</CashBack>
      <Balance>Balance</Balance>
    </Amount>
    <AcqRefData>AcqRefData</AcqRefData>
    <RecordNo>RecordNo</RecordNo>
  </TranResponse>
</RStream>
```