



# IXRetail POSLog Technical Specification

## Volume 2 – Tendering

### Version 2.0

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## IXRetail POSLog Technical Specification, Volume 2 - Tendering

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## 1. 概説

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### 1.1 概要

第一巻では在庫記録の見解を説明しました。この巻では、POSLogスキーマの支払い部分に専念します。

### 1.2 メッセージのスキーマ

### 1.3 適用範囲外

将来のバージョンで含めます。

### 1.4 前提条件

1. 支払い例は全て、非課税で、しかも単純なアイテム購入の場合とします。

## 2. 参考文書

---

### 国際単位系

<http://www.bipm.fr> にある Bureau International des Poids et Mesures (BIPM) が作り、管理しています。

### IXRetail

IXRetail POSLog Technical Specification Volume 1.0.doc (Sale and Return) [IXRetail POSLog 技術仕様書、ボリューム 1.0(販売と返品)]

IXRetail POSLog Technical Specification Volume 3.0.doc (Taxation) [IXRetail POSLog 技術仕様書、ボリューム 3.0(課税)]

IXRetail Extending Schemas Technical Report [IXRetail 拡張スキーマ技術レポート]

### 国際標準化機構 (ISO)

ISO 7812-7816 を基にしたカード番号とドメイン・ネーム・システム(DNS)

### 3. 使用例：販売の支払い

---

以下の記述は、全ての販売支払いの状況で使われます。

#### 概略説明

顧客が、一つまたはそれ以上のアイテムを選び、それを様々な支払いメディアで購入します。

#### 流れの説明

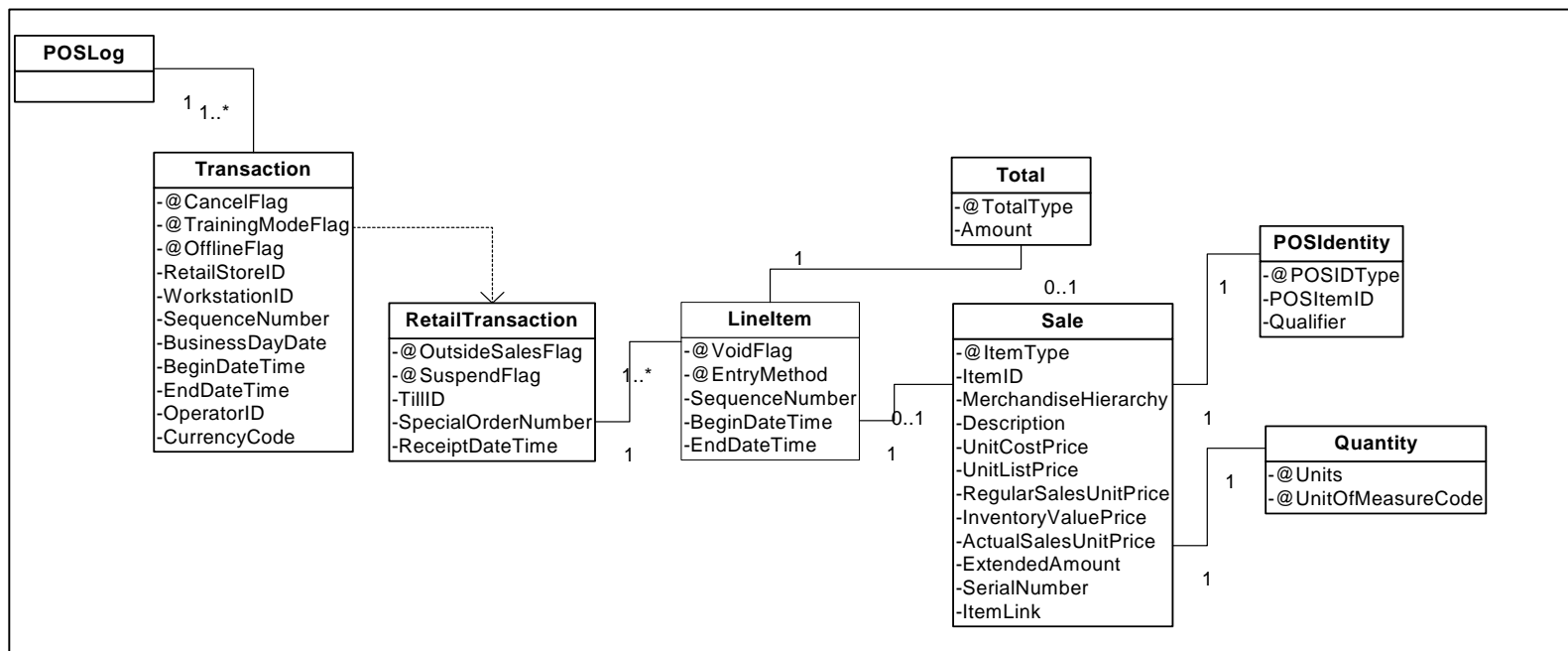
1. 顧客が購入のために、あるアイテムを POS へと持ってきます。
2. レジ係は、そのアイテムを POS へ入力し、その取引を完了します。
3. POS は、その取引を POS-Log へ報告します。
4. POS-Log は、その取引を在庫記録と販売履歴に手渡します。
5. 在庫記録システムは、そのアイテムの在庫数を減らします。

#### データ

- 以下を含む取引ヘッダーのデータ
  - 店、ワークステーションおよび、取引を実行するオペレーターのそれぞれの識別子
  - 取引実行の日時
  - その取引を識別するための、ワークステーションで割り振った一連番号
- 以下を含む販売のデータ
  - 販売アイテムの識別子
  - 販売アイテムの数量
  - 販売アイテムの単価
  - 乗算結果額(単価 x 販売アイテムの数量)

#### データ階層図

追加される独自の支払い拡張機能が、各状況に含まれています。



### 3.1 状況：現金での釣銭を伴わない現金預りでの顧客による支払い購入

#### 概略説明

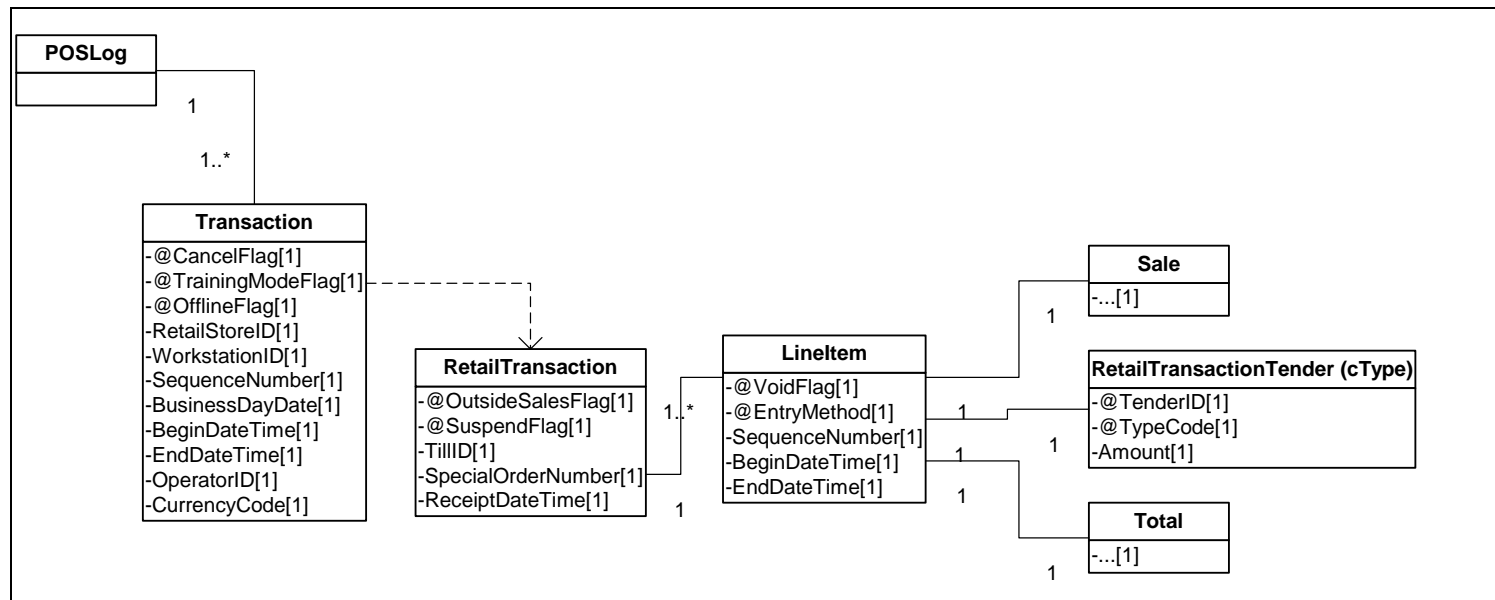
顧客が、一つまたは複数のアイテムを選び、それをちょうど額の現金で購入します。

#### データ

- 支払いメディア = 現金
- 種別 = 販売
- 支払い額



データ階層図



XML の例

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
  </RetailTransaction>
  <LineItem>

```

```
<SequenceNumber>1</SequenceNumber>
<Sale ItemType="Stock">
  <POSIdentity>
    <POSItemID>01234567890123</POSItemID>
  </POSIdentity>
  <ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
  <ExtendedAmount>4.89</ExtendedAmount>
  <Quantity>3</Quantity>
</Sale>
</LineItem>
<LineItem>
  <SequenceNumber>2</SequenceNumber>
  <Tender TenderID="Cash" TypeCode="Sale">
    <Amount>4.89</Amount>
  </Tender>
</LineItem>
<Total TotalType="TransactionGrandAmount">
  <Amount>4.89</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```

### 3.2 Scenario: Customer Tender's Purchase with Cash Tender with Cash Back

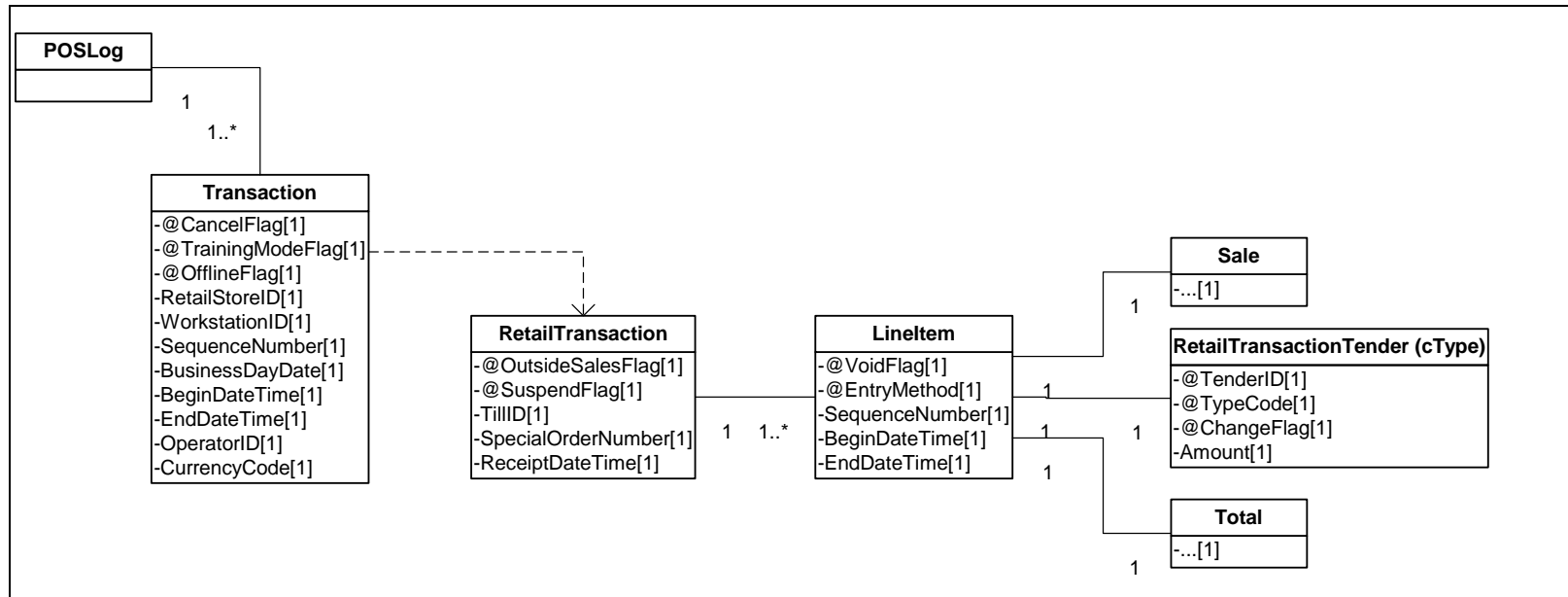
#### Brief Description

Customer selects one or more items and purchases them with cash getting cash back.

#### Data

- Tender Type = Cash
- Type = Sale
- Amount Tendered
- Amount of Change

Data Hierarchy Diagram



Example XML

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
    <LineItem>
      <SequenceNumber>1</SequenceNumber>
      <Sale ItemType="Stock">

```

```
<POSIDentity>
  <POSItemID>01234567890123</POSItemID>
</POSIDentity>
<ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
<ExtendedAmount>4.89</ExtendedAmount>
<Quantity>3</Quantity>
</Sale>
</LineItem>
<LineItem>
  <SequenceNumber>2</SequenceNumber>
  <Tender TenderID="Cash" TypeCode="Sale">
    <Amount>5.00</Amount>
  </Tender>
</LineItem>
<LineItem>
  <SequenceNumber>3</SequenceNumber>
  <Tender TenderID="Cash" TypeCode="Sale" ChangeFlag="true">
    <Amount>.11</Amount>
  </Tender>
</LineItem>
<Total TotalType="TransactionGrandAmount">
  <Amount>4.89</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```

### 3.3 状況：現金での釣銭を伴わないデビットまたはクレジット・カード預りでの顧客による支払い購入

#### 概略説明

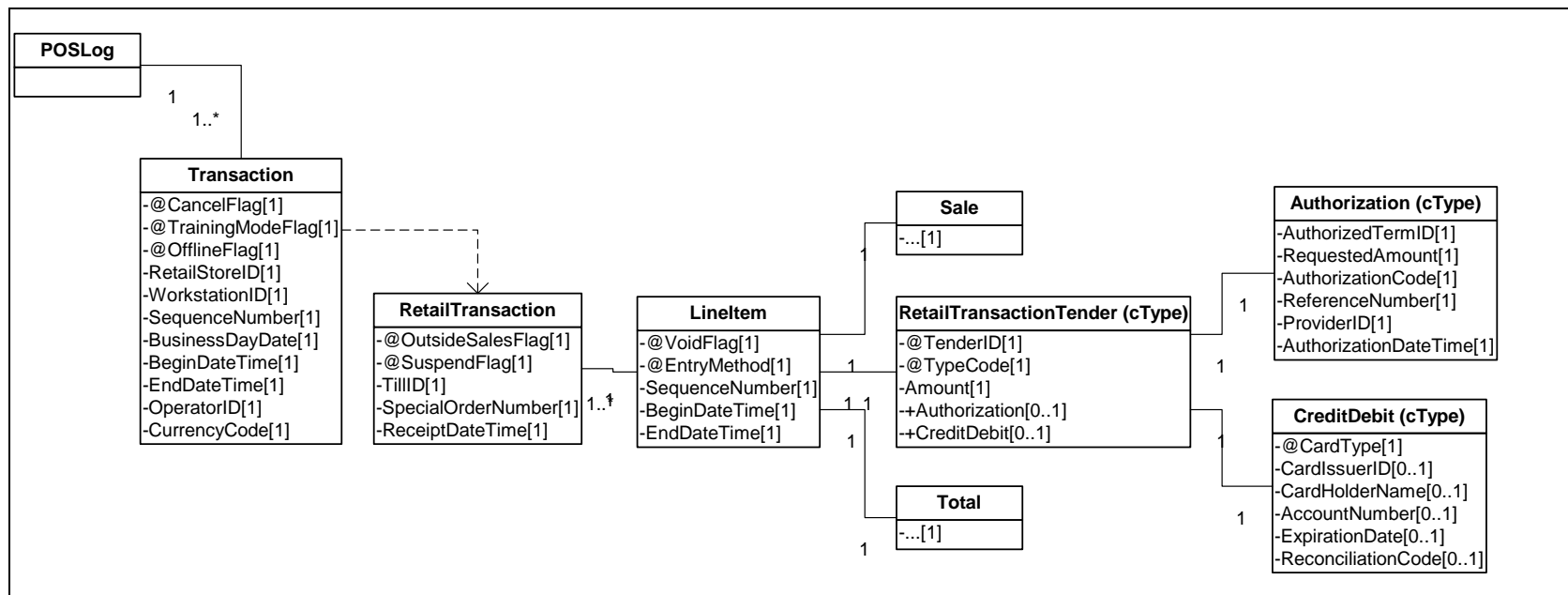
顧客が、一つまたは複数のアイテムを選び、それをデビットまたはクレジット・カードで購入します。

#### データ

- 支払いメディア = クレジット
- 種別 = 販売
- 支払い額
- クレジット・カード情報

- カード・タイプ
- カード所有者名
- カードの個人番号
- 有効期限日
- 認証情報
  - 取引が認証された端末機
  - 認証された額
  - 認証コード
  - 取引を認証したプロバイダー
  - 認証の日時

データ階層図



### XML の例

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
    <LineItem>
      <SequenceNumber>1</SequenceNumber>
      <Sale ItemType="Stock">
        <POSIdentity>
          <POSItemID>01234567890123</POSItemID>
        </POSIdentity>
        <ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
        <ExtendedAmount>4.89</ExtendedAmount>
        <Quantity>3</Quantity>
      </Sale>
    </LineItem>
    <LineItem>
      <SequenceNumber>2</SequenceNumber>
      <Tender TenderID="CreditDebit" TypeCode="Sale">
        <Amount>4.89</Amount>
        <Authorization>
          <AuthorizedTermID>asdf</AuthorizedTermID>
          <RequestedAmount>4.89</RequestedAmount>
          <AuthorizationCode>234</AuthorizationCode>
          <ReferenceNumber>1234</ReferenceNumber>
          <ProviderID>asdf</ProviderID>
          <AuthorizationDateTime>2001-08-13T09:02:50</AuthorizationDateTime>
        </Authorization>
        <CreditDebit CardType="Credit">
          <IssuerIdentificationNumber>12345678</IssuerIdentificationNumber>
          <CardHolderName>Joe Cool</CardHolderName>
          <PrimaryAccountNumber>12345678</PrimaryAccountNumber>
          <ExpirationDate>2005-08</ExpirationDate>
          <ReconcilliationCode>1234asdf</ReconcilliationCode>
        </CreditDebit>
      </Tender>
    </LineItem>
  </RetailTransaction>
</Transaction>
</POSLog>
```

```
        </CreditDebit>
      </Tender>
    </LineItem>
    <Total TotalType="TransactionGrandAmount">
      <Amount>4.89</Amount>
    </Total>
  </RetailTransaction>
</Transaction>
</POSLog>
```

### 3.4 Scenario: Customer Tender's Purchase with Debit or Credit Tender with Cash Back

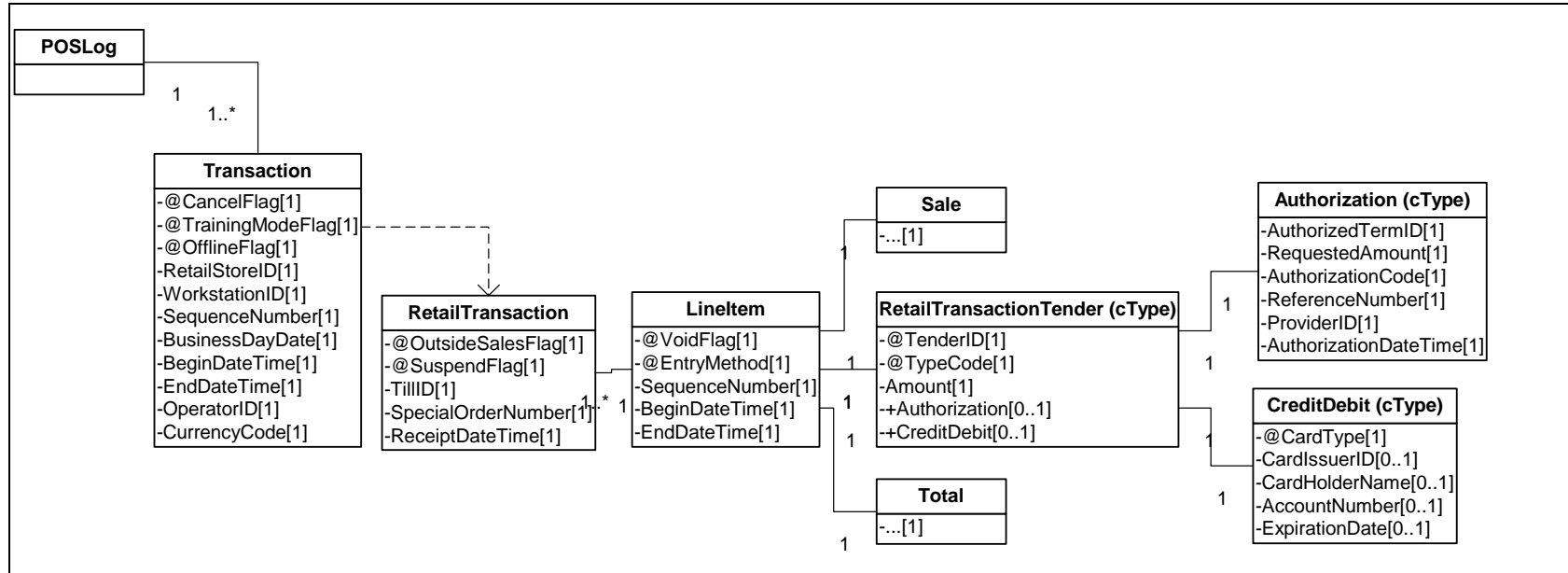
#### Brief Description

Customer selects one or more items and purchases them with debit or credit card getting cash back.

#### Data

- Tender Type = Debit
- Type = Sale
- Tender Amount
- Credit Card Information
  - Card Type
  - Card Holder Name
  - Account Number
  - Expiration Date
- Authorization Information
  - Terminal where Transaction was Authorized
  - Amount Authorized
  - Authorization Code
  - Provider who Authorized Transaction
  - Date Time of Authorization
- Change Back to the Customer

Data Hierarchy Diagram



Example XML

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
    <LineItem>

```



```
<SequenceNumber>1</SequenceNumber>
<Sale ItemType="Stock">
  <POSIdentity>
    <POSItemID>01234567890123</POSItemID>
  </POSIdentity>
  <ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
  <ExtendedAmount>4.89</ExtendedAmount>
  <Quantity>3</Quantity>
</Sale>
</LineItem>
<LineItem>
  <SequenceNumber>2</SequenceNumber>
  <Tender TenderID="CreditDebit" TypeCode="Sale">
    <Amount>9.89</Amount>
    <Authorization>
      <AuthorizedTermID>asdf</AuthorizedTermID>
      <RequestedAmount>9.89</RequestedAmount>
      <AuthorizationCode>234</AuthorizationCode>
      <ReferenceNumber>1234</ReferenceNumber>
      <ProviderID>asdf</ProviderID>
      <AuthorizationDateTime>2001-08-13T09:02:50</AuthorizationDateTime>
    </Authorization>
    <CreditDebit CardType="Debit">
      <IssuerIdentificationNumber>123456789</IssuerIdentificationNumber>
      <CardHolderName>Joe Cool</CardHolderName>
      <PrimaryAccountNumber>12345678</PrimaryAccountNumber>
      <ExpirationDate>2005-08</ExpirationDate>
    </CreditDebit>
  </Tender>
</LineItem>
<LineItem>
  <SequenceNumber>2</SequenceNumber>
  <Tender TenderID="Cash" TypeCode="Sale" ChangeFlag="true">
    <Amount>5.00</Amount>
  </Tender>
</LineItem>
<Total TotalType="TransactionGrandAmount">
  <Amount>4.89</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```

### 3.5 Scenario: Customer Tender's Purchase with Check Tender without Cash Back

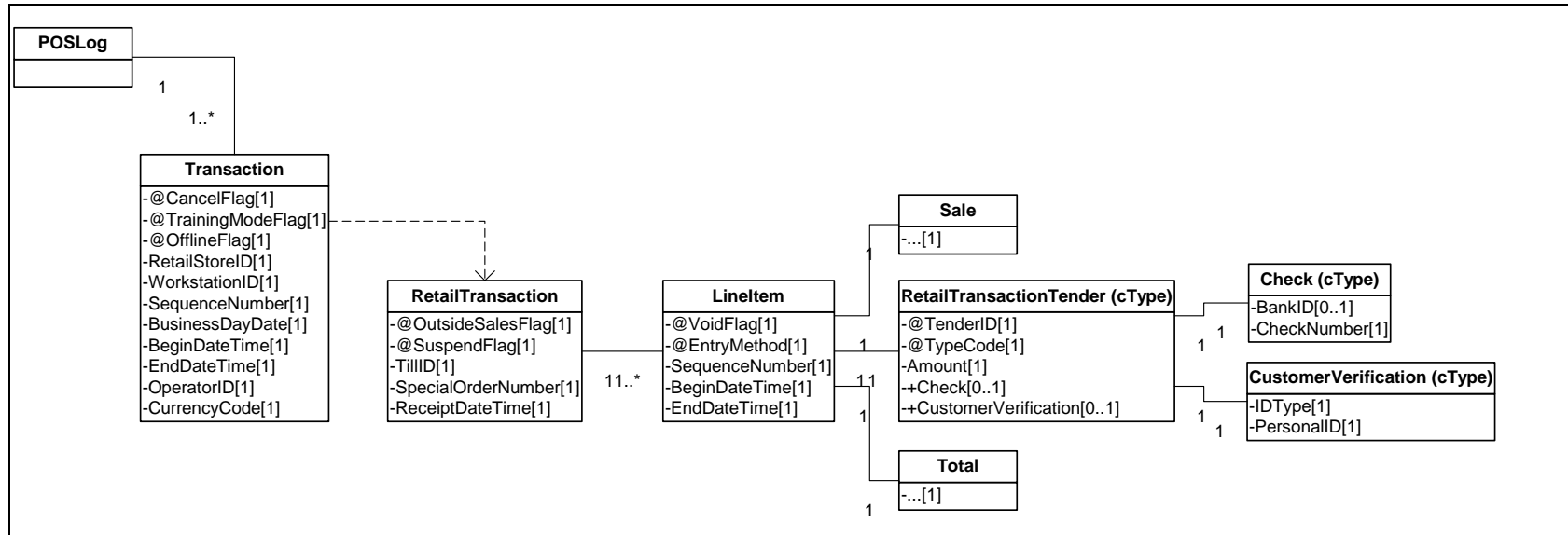
#### Brief Description

Customer selects one or more items and purchases them with a check.

#### Data

- Tender Type = Check
- Type = Sale
- Tender Amount
- Check Information
  - Bank
  - Check Number
- Customer Verification Information
  - ID Type
  - Personal ID Number

Data Hierarchy Diagram



Example XML

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
    <LineItem>
      <SequenceNumber>1</SequenceNumber>
      <Sale ItemType="Stock">

```

```
<POSIDentity>
  <POSItemID>01234567890123</POSItemID>
</POSIDentity>
<ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
<ExtendedAmount>4.89</ExtendedAmount>
<Quantity>3</Quantity>
</Sale>
</LineItem>
<LineItem>
  <SequenceNumber>2</SequenceNumber>
  <Tender TenderID="Check" TypeCode="Sale">
    <Amount>4.89</Amount>
    <Check>
      <BankID>1234</BankID>
      <CheckNumber>1234</CheckNumber>
    </Check>
    <CustomerVerification>
      <IDType>Driver's License</IDType>
      <PersonalID>1234-56-7890</PersonalID>
    </CustomerVerification>
  </Tender>
</LineItem>
<Total TotalType="TransactionGrandAmount">
  <Amount>4.89</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```

### 3.6 Scenario: Customer Tender's Purchase with Check Tender with Cash Back

#### Brief Description

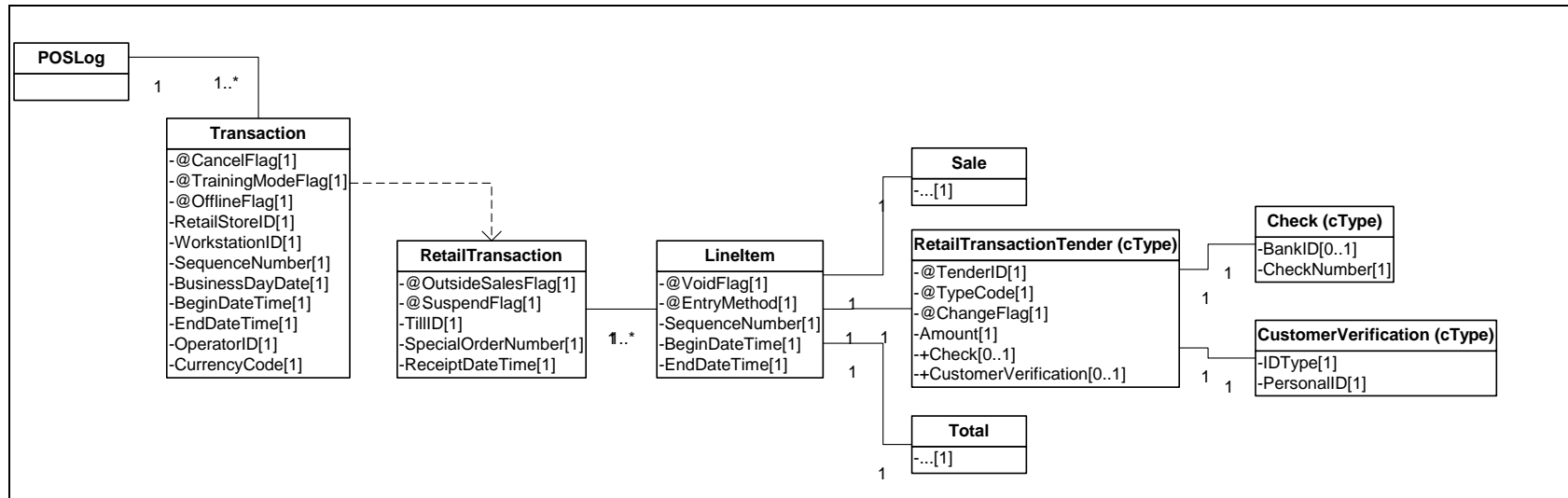
Customer selects one or more items and purchases them with a check getting cash back.

#### Data

- Tender Type = Check
- Type = Sale
- Tender Amount
- Check Information

- Bank
- Check Number
- Customer Verification Information
  - ID Type
  - Personal ID Number
- Change Back to the Customer

**Data Hierarchy Diagram**



**Example XML**

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
```

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```
<RetailStoreID>HighStreet</RetailStoreID>
<WorkstationID>POS5</WorkstationID>
<SequenceNumber>4294967295</SequenceNumber>
<BusinessDayDate>2001-08-13</BusinessDayDate>
<BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
<LineItem>
  <SequenceNumber>1</SequenceNumber>
  <Sale ItemType="Stock">
    <POSIdentity>
      <POSItemID>01234567890123</POSItemID>
    </POSIdentity>
    <ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
    <ExtendedAmount>4.89</ExtendedAmount>
    <Quantity>3</Quantity>
  </Sale>
</LineItem>
<LineItem>
  <SequenceNumber>2</SequenceNumber>
  <Tender TenderID="Check" TypeCode="Sale">
    <Amount>9.89</Amount>
    <Check>
      <BankID>1234</BankID>
      <CheckNumber>1234</CheckNumber>
    </Check>
    <CustomerVerification>
      <IDType>Driver's License</IDType>
      <PersonalID>1234-56-7890</PersonalID>
    </CustomerVerification>
  </Tender>
</LineItem>
<LineItem>
  <SequenceNumber>3</SequenceNumber>
  <Tender TenderID="Cash" TypeCode="Sale" ChangeFlag="true">
    <Amount>5.00</Amount>
  </Tender>
</LineItem>
<Total TotalType="TransactionGrandAmount">
  <Amount>4.89</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```

### 3.7 Scenario: Customer Tender's Purchase with Travelers Check in a Foreign Currency

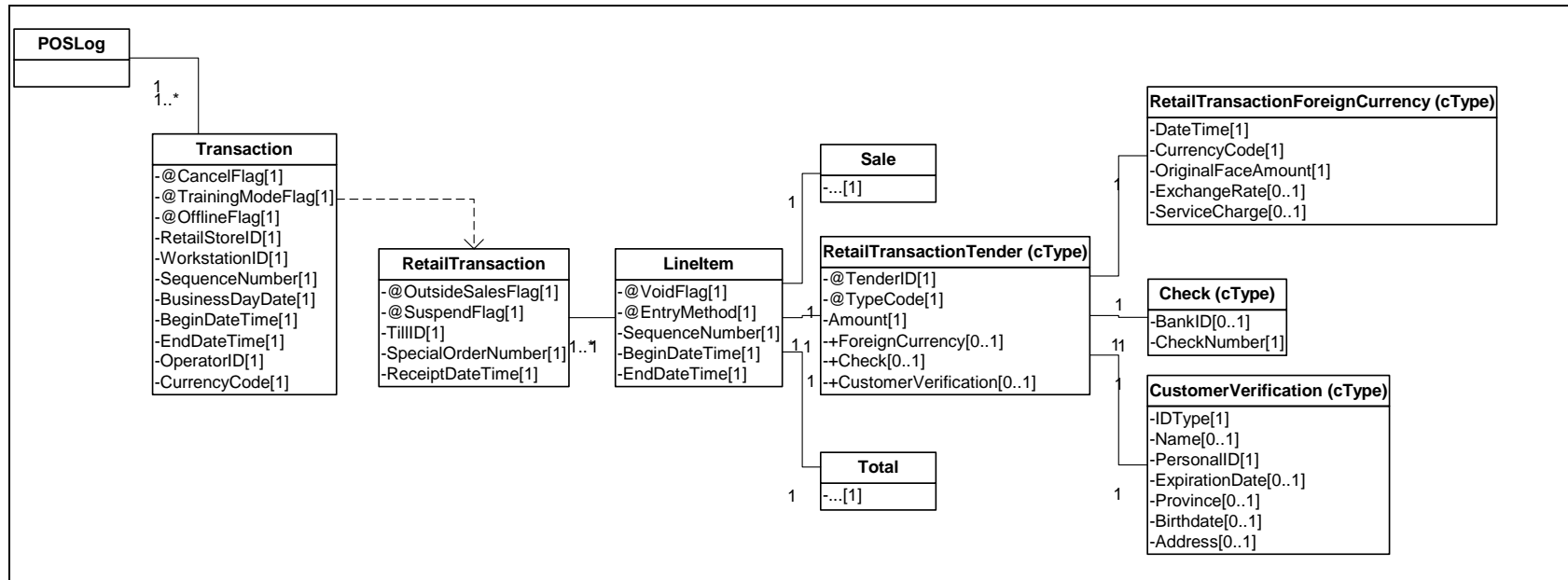
#### Brief Description

Customer, on vacation in a foreign country, selects one or more items and purchases them with a traveler's check in a foreign currency.

#### Data

- Tender Type = Travelers Check
- Type = Sale
- Tender Amount
- Foreign Currency Information
  - Date and Time of the Currency Exchange
  - Currency Code of the original Currency
  - Original Face Amount in the Original Currency
  - Exchange Rate
- Travelers Check Number
- Customer Verification Information
  - Type ID
  - Personal ID Number

Data Hierarchy Diagram



Example XML

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
    <LineItem>

```



```
<SequenceNumber>1</SequenceNumber>
<Sale ItemType="Stock">
  <POSIdentity>
    <POSItemID>01234567890123</POSItemID>
  </POSIdentity>
  <ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
  <ExtendedAmount>4.89</ExtendedAmount>
  <Quantity>3</Quantity>
</Sale>
</LineItem>
<LineItem>
  <SequenceNumber>2</SequenceNumber>
  <Tender TenderID="TravelersCheck" TypeCode="Sale">
    <Amount>4.89</Amount>
    <ForeignCurrency>
      <DateTime>2001-08-13T09:03:00</DateTime>
      <CurrencyCode>NZD</CurrencyCode>
      <OriginalFaceAmount>9.78</OriginalFaceAmount>
      <ExchangeRate>2.00000</ExchangeRate>
    </ForeignCurrency>
    <Check>
      <CheckNumber>1234</CheckNumber>
    </Check>
    <CustomerVerification>
      <IDType>Driver's License</IDType>
      <PersonalID>1234-56-7890</PersonalID>
    </CustomerVerification>
  </Tender>
</LineItem>
<Total TotalType="TransactionGrandAmount">
  <Amount>4.89</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```

### 3.8 Scenario: Customer Tender's Purchase with Purchase Order

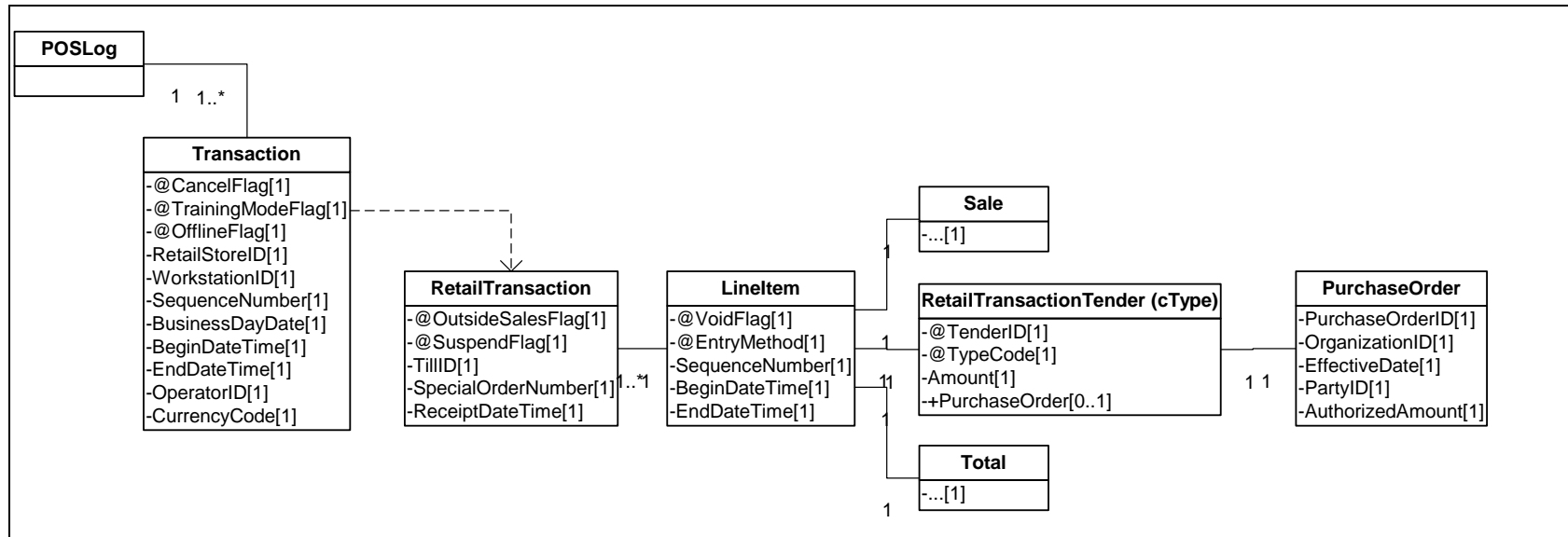
#### Brief Description

Customer selects one or more items and purchases them with purchase order.

Data

- Tender Type = Purchase Order
- Type = Sale
- Tender Amount
- Purchase Order Information
  - PO Id
  - Organization
  - Date of the PO
  - Identification of Person with Purchase Order
  - Amount of the PO.

Data Hierarchy Diagram



### Example XML

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
  <Transaction>
    <RetailTransaction Version="1.0">
      <RetailStoreID>HighStreet</RetailStoreID>
      <WorkstationID>POS5</WorkstationID>
      <SequenceNumber>4294967295</SequenceNumber>
      <BusinessDayDate>2001-08-13</BusinessDayDate>
      <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
      <LineItem>
        <SequenceNumber>1</SequenceNumber>
        <Sale ItemType="Stock">
          <POSIdentity>
            <POSItemID>01234567890123</POSItemID>
          </POSIdentity>
          <ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
          <ExtendedAmount>4.89</ExtendedAmount>
          <Quantity>3</Quantity>
        </Sale>
      </LineItem>
      <LineItem>
        <SequenceNumber>2</SequenceNumber>
        <Tender TenderID="PurchaseOrder" TypeCode="Sale">
          <Amount>4.89</Amount>
          <PurchaseOrder>
            <PurchaseOrderID>1234</PurchaseOrderID>
            <OrganizationID>MIC</OrganizationID>
            <EffectiveDate>2001-08-13</EffectiveDate>
            <PartyID>Joe Cool</PartyID>
            <AuthorizedAmount>4.89</AuthorizedAmount>
          </PurchaseOrder>
        </Tender>
      </LineItem>
      <Total TotalType="TransactionGrandAmount">
        <Amount>4.89</Amount>
      </Total>
    </RetailTransaction>
  </Transaction>
```

</POSLog>

### 3.9 Scenario: Customer Tender's Purchase to Store Charge Account

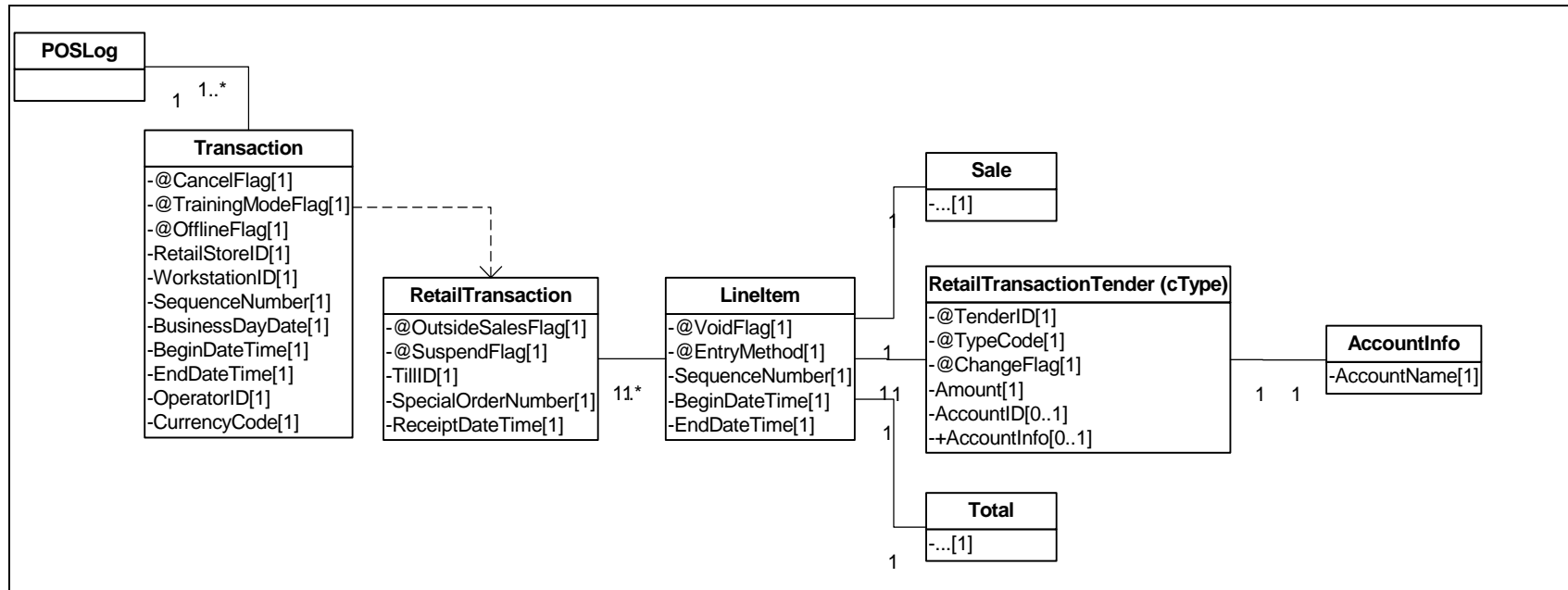
#### Brief Description

Customer selects one or more items and charges them to their store account.

#### Data

- Tender Type = Store Account
- Type = Sale
- Tender Amount
- Store Account Information
  - Account Number
  - Account Name

Data Hierarchy Diagram



Example XML

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
    <LineItem>

```

```
<SequenceNumber>1</SequenceNumber>
<Sale ItemType="Stock">
  <POSIdentity>
    <POSItemID>01234567890123</POSItemID>
  </POSIdentity>
  <ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
  <ExtendedAmount>4.89</ExtendedAmount>
  <Quantity>3</Quantity>
</Sale>
</LineItem>
<LineItem>
  <SequenceNumber>2</SequenceNumber>
  <Tender TenderID="StoreAccount" TypeCode="Sale">
    <Amount>4.89</Amount>
    <AccountID>1234</AccountID>
    <AccountInfo>
      <AccountName>Joe Cool</AccountName>
    </AccountInfo>
  </Tender>
</LineItem>
<Total TotalType="TransactionGrandAmount">
  <Amount>4.89</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```

### 3.10 Scenario: Customer Tender's Purchase with In-Store Coupon and Cash

#### Brief Description

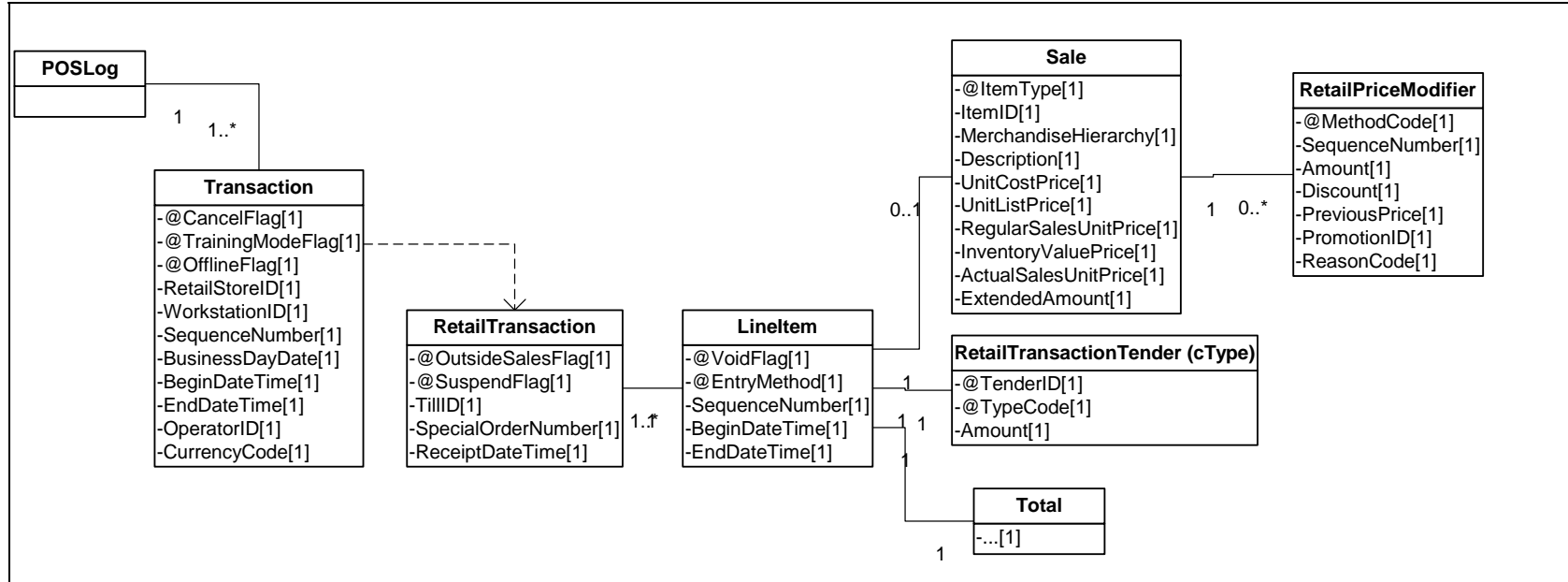
Customer selects one or more items and purchases them with in part with an in-store coupon and the remaining with cash.

#### Data

- In-Store Coupon is a pre-tax discount
- Tender Type = Cash
- Type = Sale
- Tender Amount

- Data Hierarchy Diagram

Data Hierarchy Diagram



### Example XML

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase with Price Override Flow: Customer Complaint -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransaction.xsd">
  <Transaction>
    <RetailTransaction Version="1.0">
      <RetailStoreID>HighStreet</RetailStoreID>
      <WorkstationID>POS5</WorkstationID>
      <SequenceNumber>4294967295</SequenceNumber>
      <BusinessDayDate>2001-08-13</BusinessDayDate>
      <LineItem>
        <SequenceNumber>1</SequenceNumber>
        <Sale ItemType="Stock">
          <POSIdentity>
            <POSItemID>01234567890123</POSItemID>
          </POSIdentity>
          <MerchandiseHierarchy Level="Department"/>
          <RegularSalesUnitPrice>12.99</RegularSalesUnitPrice>
          <ActualSalesUnitPrice>10.99</ActualSalesUnitPrice>
          <ExtendedAmount>10.99</ExtendedAmount>
          <Quantity>1</Quantity>
          <RetailPriceModifier MethodCode="Promotion">
            <SequenceNumber>1</SequenceNumber>
            <Amount Action="Replace">10.99</Amount>
            <PreviousPrice>12.99</PreviousPrice>
            <ReasonCode>Coupon</ReasonCode>
          </RetailPriceModifier>
        </Sale>
      </LineItem>
      <LineItem>
        <SequenceNumber>2</SequenceNumber>
        <Tender TenderID="Cash" TypeCode="Sale">
          <Amount>10.99</Amount>
        </Tender>
      </LineItem>
      <Total TotalType="TransactionGrandAmount">
        <Amount>10.99</Amount>
      </Total>
    </RetailTransaction>
  </Transaction>
</POSLog>
```



```
</POSLog>
```

### 3.11 Scenario: Customer Tender's Purchase with Manufacturer's Coupon and Cash

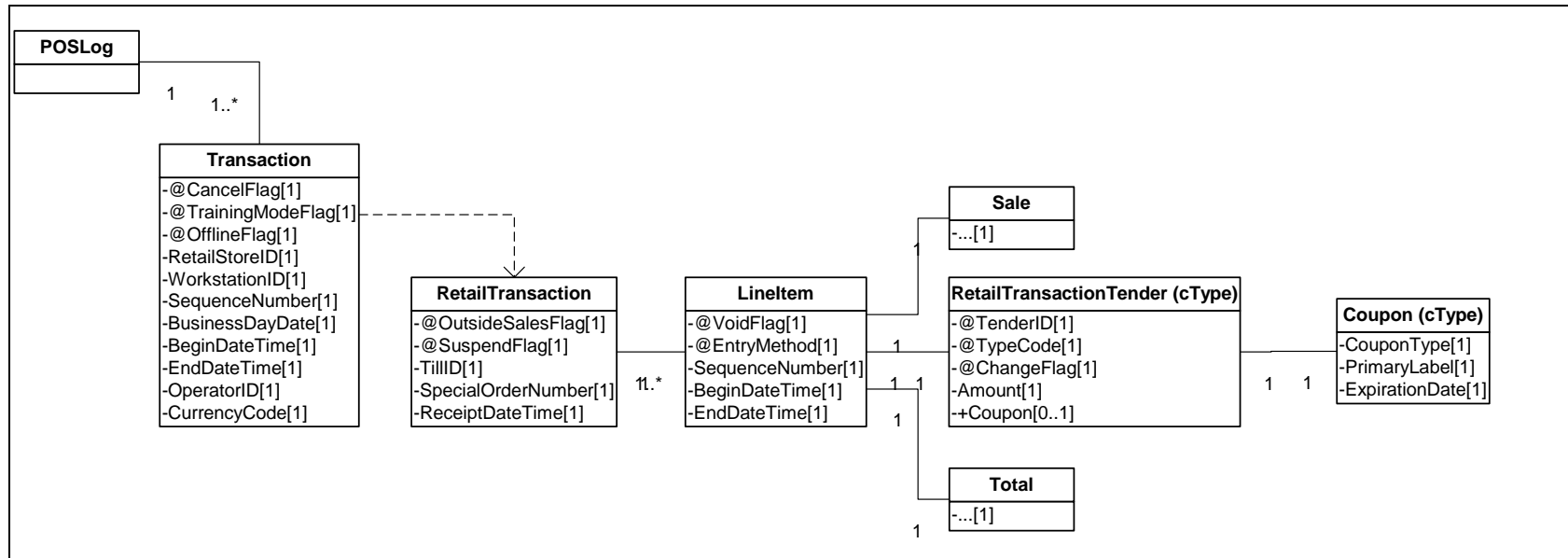
#### Brief Description

Customer selects one or more items and purchases them with a manufacturer's coupon and cash.

#### Data

- Tender Type = Coupon
- Type = Sale
- Coupon Tender Amount
- Coupon Information
  - Coupon Type
  - Label
  - Expiration Date
- Tender Type = Cash
- Tender Amount

Data Hierarchy Diagram



Example XML

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
    <LineItem>
      <SequenceNumber>1</SequenceNumber>
    
```

```
<Sale ItemType="Stock">
  <POSIdentity>
    <POSItemID>01234567890123</POSItemID>
  </POSIdentity>
  <ActualSalesUnitPrice>10.63</ActualSalesUnitPrice>
  <ExtendedAmount>10.63</ExtendedAmount>
</Sale>
</LineItem>
<LineItem>
  <SequenceNumber>2</SequenceNumber>
  <Tender TenderID="Coupon" TypeCode="Sale">
    <Amount>2.00</Amount>
    <Coupon>
      <CouponType>ManufacturerCoupon</CouponType>
      <PrimaryLabel>12347890</PrimaryLabel>
      <ExpirationDate>2003-04-31</ExpirationDate>
    </Coupon>
  </Tender>
</LineItem>
<LineItem>
  <SequenceNumber>3</SequenceNumber>
  <Tender TenderID="Cash" TypeCode="Sale">
    <Amount>8.63</Amount>
  </Tender>
</LineItem>
<Total TotalType="TransactionGrandAmount">
  <Amount>10.63</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```

### 3.12 Scenario: Customer Tender's Purchase with Voucher, Gift Certificate or Other Stored Value media with change as Voucher and Cash

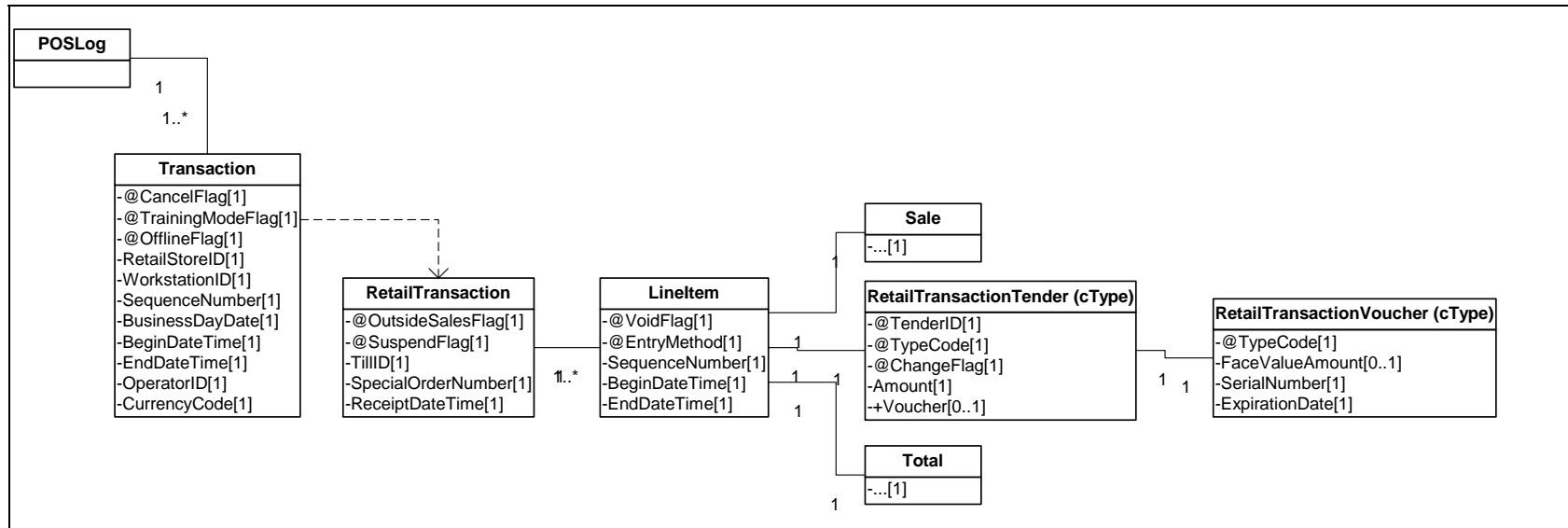
#### Brief Description

Customer selects one or more items and purchases them with a gift certificate with the difference refunded as cash.

**Data**

- Tender Type = Gift Certificate
- Type = Sale
- Tender Amount
- Gift Certificate Information
  - Face Amount
  - Serial Number
  - Expiration Date
- Change
  - Tender Type = Gift Certificate
  - Type = Sale
  - Change Amount
  - Gift Certificate Information
    - Face Amount
    - Serial Number
    - Expiration Date
  - Tender Type = Cash
  - Tender Amount

Data Hierarchy Diagram



Example XML

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
    <LineItem>
      <SequenceNumber>1</SequenceNumber>
      <Sale ItemType="Stock">

```

```
<POSIdentity>
  <POSItemID>01234567890123</POSItemID>
</POSIdentity>
<ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
<ExtendedAmount>4.89</ExtendedAmount>
<Quantity>3</Quantity>
</Sale>
</LineItem>
<LineItem>
  <SequenceNumber>2</SequenceNumber>
  <Tender TenderID="Voucher" TypeCode="Sale">
    <Amount>4.89</Amount>
    <Voucher TypeCode="GiftCertificate">
      <FaceValueAmount>10.00</FaceValueAmount>
      <SerialNumber>12345678</SerialNumber>
      <ExpirationDate>2003-04-03</ExpirationDate>
    </Voucher>
  </Tender>
</LineItem>
<LineItem>
  <SequenceNumber>3</SequenceNumber>
  <Tender TenderID="Voucher" TypeCode="Sale" ChangeFlag="true">
    <Amount>5.00</Amount>
    <Voucher TypeCode="GiftCertificate">
      <FaceValueAmount>5.00</FaceValueAmount>
      <SerialNumber>12345678</SerialNumber>
      <ExpirationDate>2003-04-03</ExpirationDate>
    </Voucher>
  </Tender>
</LineItem>
<LineItem>
  <SequenceNumber>3</SequenceNumber>
  <Tender TenderID="Cash" TypeCode="Sale" ChangeFlag="true">
    <Amount>.11</Amount>
  </Tender>
</LineItem>
<Total TotalType="TransactionGrandAmount">
  <Amount>4.89</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```

### 3.13 Scenario: Customer Tender's Purchase with Voucher, Gift Certificate or Other Stored Value media with change as Voucher Only

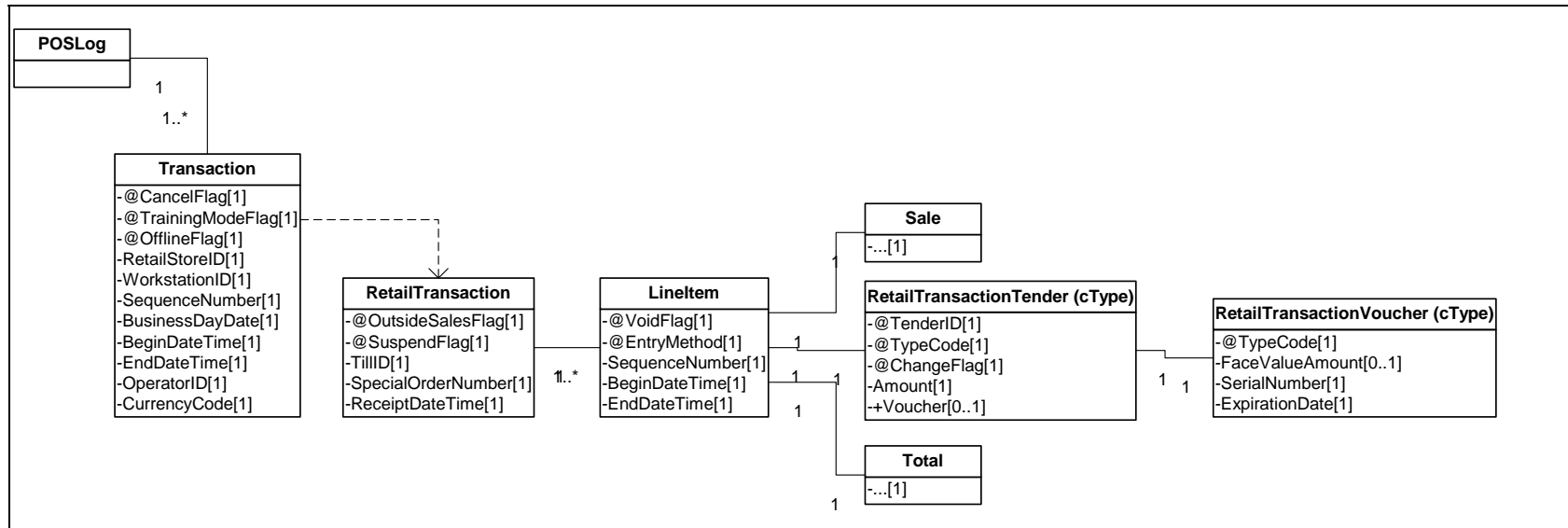
#### Brief Description

Customer selects one or more items and purchases them with a gift certificate and getting a voucher for the remainder of the value of the gift certificate.

#### Data

- Tender Type = Gift Certificate
- Type = Sale
- Tender Amount
- Gift Certificate Information
  - Face Amount
  - Serial Number
  - Expiration Date
- Change
  - Tender Type = Gift Certificate
  - Type = Sale
  - Change Amount
  - Gift Certificate Information
    - Face Amount
    - Serial Number
    - Expiration Date

Data Hierarchy Diagram



Example XML

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
    <LineItem>
      <SequenceNumber>1</SequenceNumber>
      <Sale ItemType="Stock">

```



```
<POSIDentity>
  <POSItemID>01234567890123</POSItemID>
</POSIDentity>
<ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
<ExtendedAmount>4.89</ExtendedAmount>
<Quantity>3</Quantity>
</Sale>
</LineItem>
<LineItem>
  <SequenceNumber>2</SequenceNumber>
  <Tender TenderID="Voucher" TypeCode="Sale">
    <Amount>4.89</Amount>
    <Voucher TypeCode="GiftCertificate">
      <FaceValueAmount>10.00</FaceValueAmount>
      <SerialNumber>12345678</SerialNumber>
      <ExpirationDate>2003-04-03</ExpirationDate>
    </Voucher>
  </Tender>
</LineItem>
<LineItem>
  <SequenceNumber>3</SequenceNumber>
  <Tender TenderID="Voucher" TypeCode="Sale" ChangeFlag="true">
    <Amount>5.11</Amount>
    <Voucher TypeCode="GiftCertificate">
      <FaceValueAmount>5.11</FaceValueAmount>
      <SerialNumber>12345678</SerialNumber>
      <ExpirationDate>2003-04-03</ExpirationDate>
    </Voucher>
  </Tender>
</LineItem>
<Total TotalType="TransactionGrandAmount">
  <Amount>4.89</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```

### 3.14 Scenario: Customer Tender's Purchase with Voucher, Gift Certificate or Other Stored Value media with change as Cash Only.

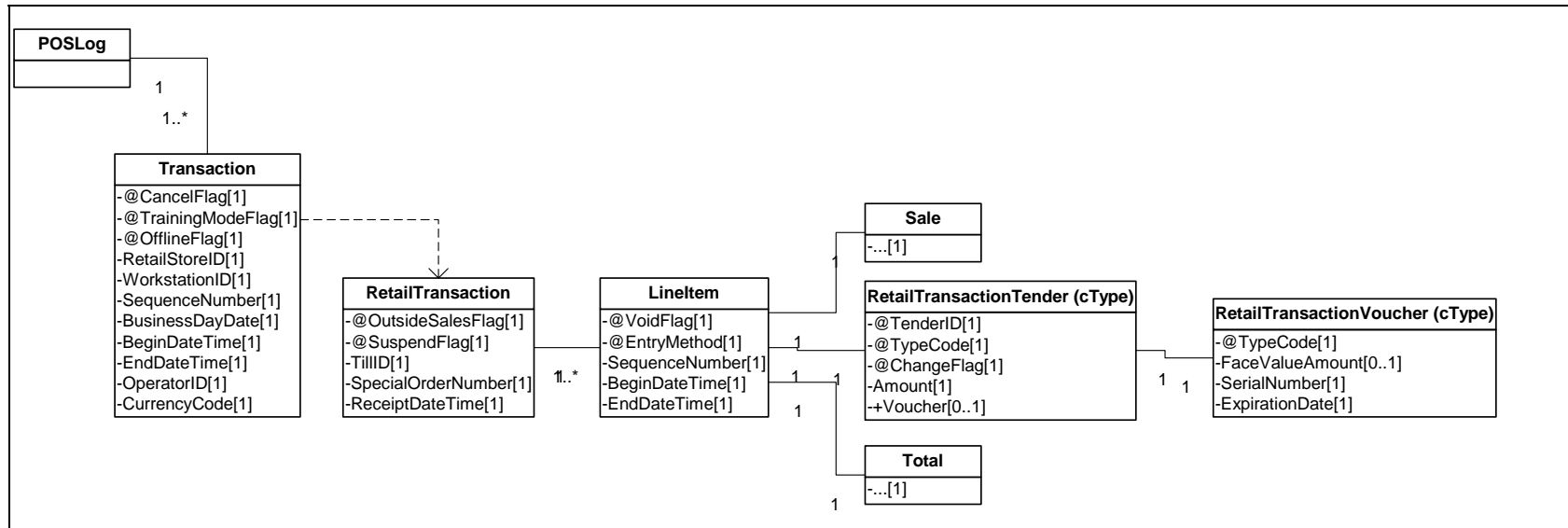
#### Brief Description

Customer selects one or more items and purchases them with a voucher, receiving the change in cash.

#### Data

- Tender Type = Gift Certificate
- Type = Sale
- Tender Amount
- Gift Certificate Information
  - Face Amount
  - Serial Number
  - Expiration Date
- Change
  - Tender Type = Cash
  - Tender Amount

Data Hierarchy Diagram



Example XML

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
    <LineItem>
      <SequenceNumber>1</SequenceNumber>
      <Sale ItemType="Stock">

```

```
<POSIdentity>
  <POSItemID>01234567890123</POSItemID>
</POSIdentity>
<ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
<ExtendedAmount>4.89</ExtendedAmount>
<Quantity>3</Quantity>
</Sale>
</LineItem>
<LineItem>
  <SequenceNumber>2</SequenceNumber>
  <Tender TenderID="Voucher" TypeCode="Sale">
    <Amount>4.89</Amount>
    <Voucher TypeCode="GiftCertificate">
      <FaceValueAmount>10.00</FaceValueAmount>
      <SerialNumber>12345678</SerialNumber>
      <ExpirationDate>2003-04-03</ExpirationDate>
    </Voucher>
  </Tender>
</LineItem>
<LineItem>
  <SequenceNumber>3</SequenceNumber>
  <Tender TenderID="Cash" TypeCode="Sale" ChangeFlag="true">
    <Amount>5.11</Amount>
  </Tender>
</LineItem>
<Total TotalType="TransactionGrandAmount">
  <Amount>4.89</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```

### 3.15 Scenario: Customer Tender's Purchase with Voucher, Gift Certificate or Other Stored Value media with no change

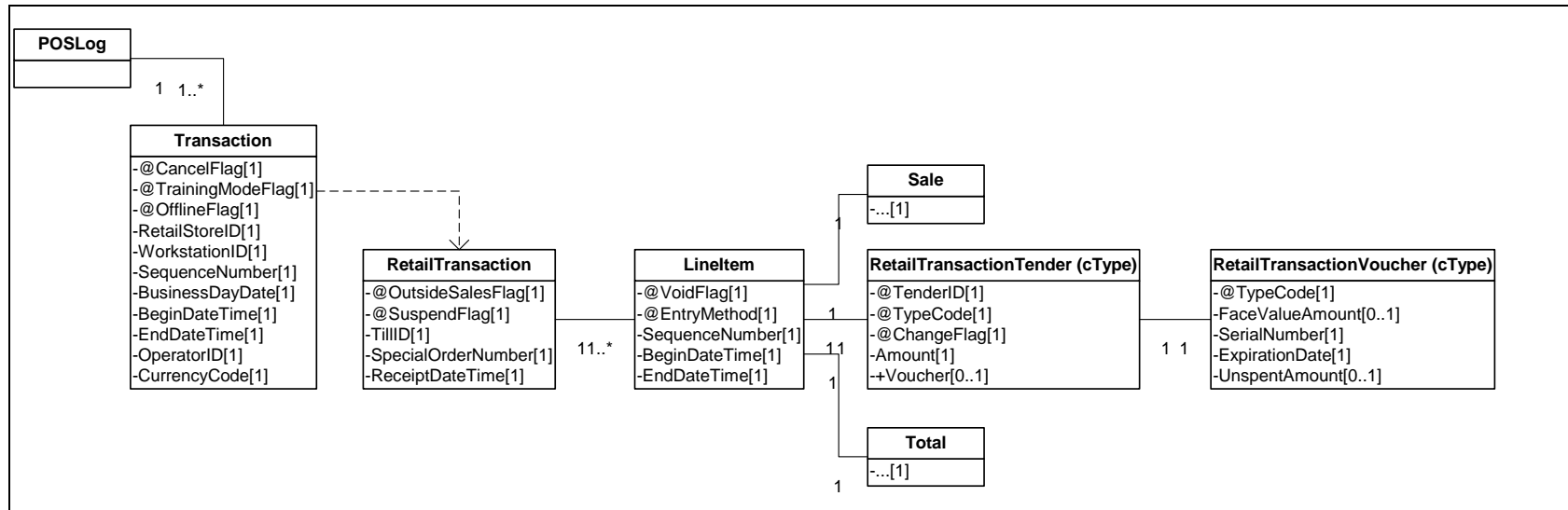
#### Brief Description

Customer selects one or more items and purchases them with voucher but tracking the unspent amount.

**Data**

- Tender Type = Voucher
- Type = Sale
- Tender Amount
- Gift Certificate Information
- Face Amount
- Serial Number
- Expiration Date
- Unspent Amount

**Data Hierarchy Diagram**



**Example XML**

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"

```

## IXRetail POSLog Technical Specification, Volume 2 - Tendering

```
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
    <LineItem>
      <SequenceNumber>1</SequenceNumber>
      <Sale ItemType="Stock">
        <POSIdentity>
          <POSItemID>01234567890123</POSItemID>
        </POSIdentity>
        <ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
        <ExtendedAmount>4.89</ExtendedAmount>
        <Quantity>3</Quantity>
      </Sale>
    </LineItem>
    <LineItem>
      <SequenceNumber>2</SequenceNumber>
      <Tender TenderID="Voucher" TypeCode="Sale">
        <Amount>4.89</Amount>
        <Voucher TypeCode="Voucher">
          <FaceValueAmount>10.00</FaceValueAmount>
          <SerialNumber>12345678</SerialNumber>
          <ExpirationDate>2003-04-03</ExpirationDate>
          <UnspentAmount>5.11</UnspentAmount>
        </Voucher>
      </Tender>
    </LineItem>
    <Total TotalType="TransactionGrandAmount">
      <Amount>4.89</Amount>
    </Total>
  </RetailTransaction>
</Transaction>
</POSLog>
```

### 3.16 Scenario: Customer Tender's Purchase with Food Stamps

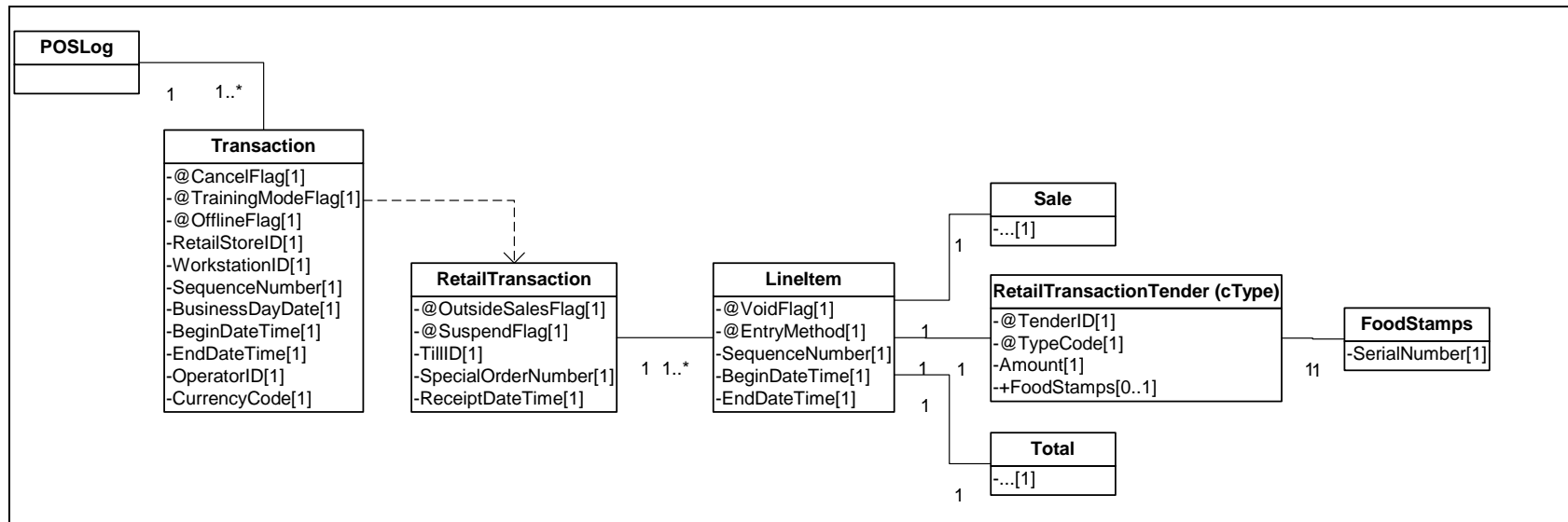
#### Brief Description

Customer selects one or more items and purchases them with food stamps in a location where the taxes are forgiven.

#### Data

- Tender Type = Foodstamps
- Type = Sale
- Tender Amount
- Food Stamp Serial Number

#### Data Hierarchy Diagram



#### Example XML

```
<?xml version="1.0" encoding="UTF-8" ?>
```

## IXRetail POSLog Technical Specification, Volume 2 - Tendering

```
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
    <LineItem>
      <SequenceNumber>1</SequenceNumber>
      <Sale ItemType="Stock">
        <POSIdentity>
          <POSItemID>01234567890123</POSItemID>
        </POSIdentity>
        <ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
        <ExtendedAmount>4.89</ExtendedAmount>
        <Quantity>3</Quantity>
      </Sale>
    </LineItem>
    <LineItem>
      <SequenceNumber>2</SequenceNumber>
      <Tender TenderID="FoodStamps" TypeCode="Sale">
        <Amount>4.89</Amount>
        <FoodStamps>
          <SerialNumber>1234568</SerialNumber>
        </FoodStamps>
      </Tender>
    </LineItem>
    <Total TotalType="TransactionGrandAmount">
      <Amount>4.89</Amount>
    </Total>
  </RetailTransaction>
</Transaction>
</POSLog>
```



### 3.17 Scenario: Customer Tender's Co-Pay Purchase, i.e. Drug Purchase

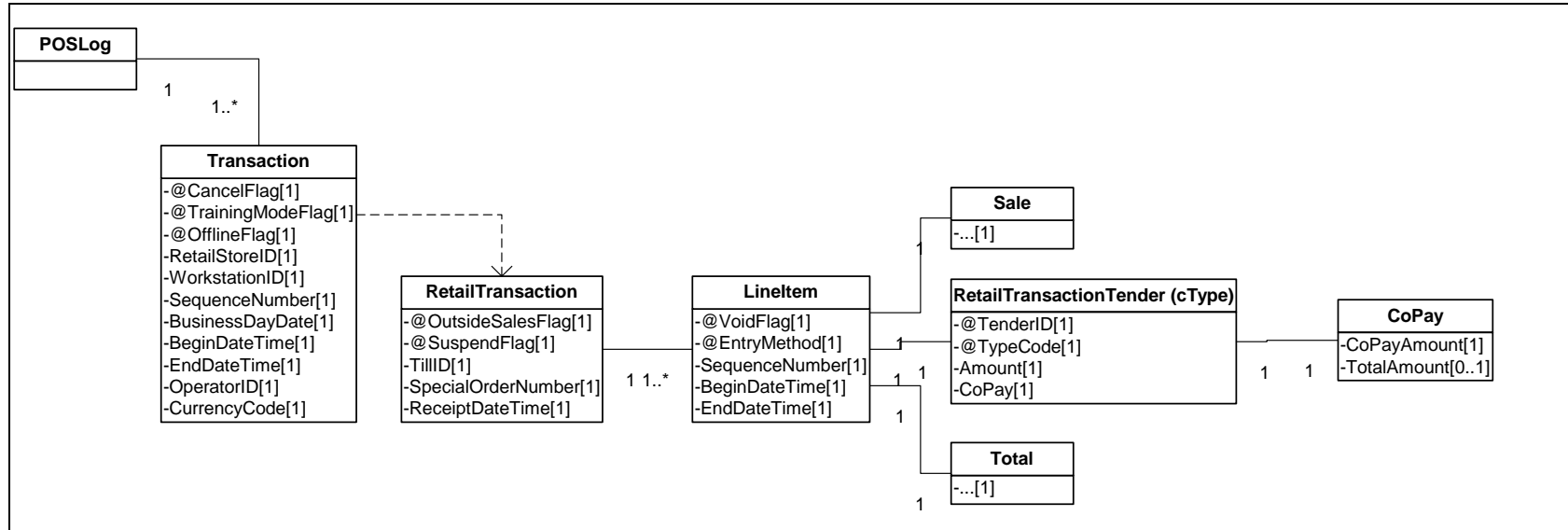
#### Brief Description

Customer selects one or more items and pays co-pay, instead of the total price, typically insurance picks up the remainder of the cost of the item(s).

#### Data

- Tender Type = Co-Pay
- Type = Sale
- Co-Pay Tender Amount
- Total Amount

Data Hierarchy Diagram



Example XML

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
    <LineItem>
      <SequenceNumber>1</SequenceNumber>
      <Sale ItemType="Stock">

```

```
<POSIdentity>
  <POSItemID>01234567890123</POSItemID>
</POSIdentity>
<ActualSalesUnitPrice>25.00</ActualSalesUnitPrice>
<ExtendedAmount>25.00</ExtendedAmount>
</Sale>
</LineItem>
<LineItem>
  <SequenceNumber>2</SequenceNumber>
  <Tender TenderID="CoPay" TypeCode="Sale">
    <Amount>10.00</Amount>
    <CoPay>
      <CoPayAmount>10.00</CoPayAmount>
      <TotalAmount>25.00</TotalAmount>
    </CoPay>
  </Tender>
</LineItem>
<Total TotalType="TransactionGrandAmount">
  <Amount>10.00</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```

### 3.18 Scenario: Customer Tender's Purchase with "Mall Bonus Bucks"

#### Brief Description

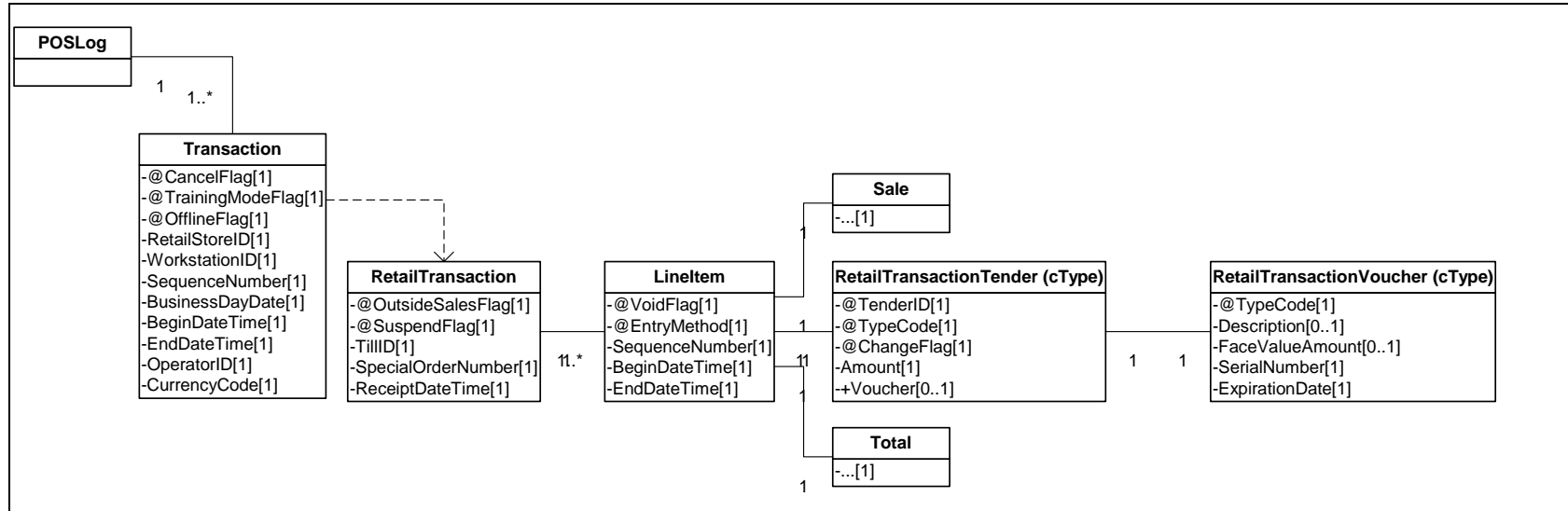
A customer goes into a store in a mall and purchases an item with "Mall Bonus Bucks" she received at another store in the mall. She receives the change from the "Mall Bonus Bucks" as cash.

#### Data

- Tender Type = Gift Certificate
- Type = Sale
- Voucher Information
- Description = Mall Bonus Bucks
- Face Value Amount

- Serial Number
- Expiration Date
- Change
- Tender Type = Cash
- Type = Sale
- Tender Amount

Data Hierarchy Diagram



Example XML

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
    <LineItem>
      <SequenceNumber>1</SequenceNumber>
      <Sale ItemType="Stock">
        <POSIdentity>

```

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---

```
<POSItemID>01234567890123</POSItemID>
  </POSIdentity>
  <ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
  <ExtendedAmount>4.89</ExtendedAmount>
  <Quantity>3</Quantity>
  </Sale>
</LineItem>
<LineItem>
  <SequenceNumber>2</SequenceNumber>
  <Tender TenderID="Voucher" TypeCode="Sale">
    <Amount>4.89</Amount>
    <Voucher TypeCode="GiftCertificate">
      <Description>Mall Bonus Bucks</Description>
      <FaceValueAmount>10.00</FaceValueAmount>
      <SerialNumber>12345678</SerialNumber>
      <ExpirationDate>2003-04-03</ExpirationDate>
    </Voucher>
  </Tender>
</LineItem>
<LineItem>
  <SequenceNumber>3</SequenceNumber>
  <Tender TenderID="Cash" TypeCode="Sale" ChangeFlag="true">
    <Amount>5.11</Amount>
  </Tender>
</LineItem>
<Total TotalType="TransactionGrandAmount">
  <Amount>4.89</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```

## 4. 使用例: 返金の支払い

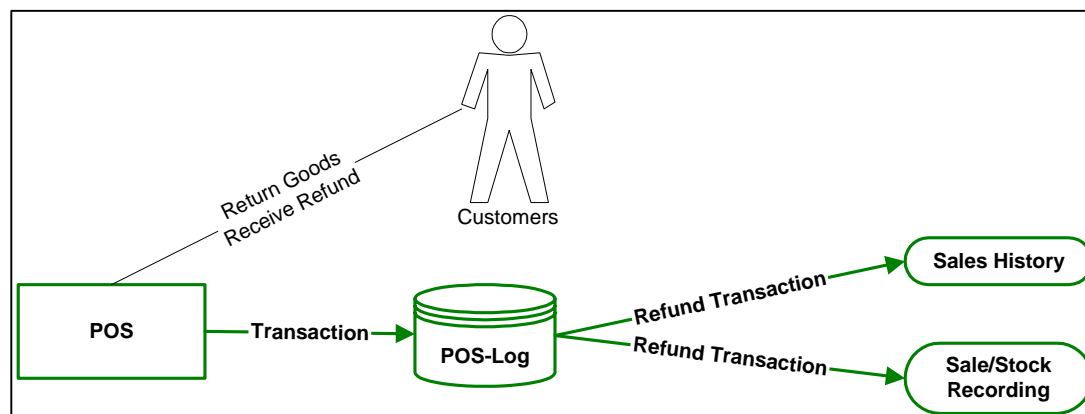
### 概略説明

顧客が店へ、あるアイテムを返品します。在庫としてそのアイテムの数量を増やすかどうかは、そのアイテムが在庫に戻されるかどうかによります。

### 流れの説明

1. 顧客がアイテムを、店長に返品します。
2. 店長は、その返品されたアイテムを POS へ入力し、その返品されたアイテムの処理方法について判断を下すこともできます。
3. POS は、その取引情報を POS-Log へ送ります。
4. POS-Log は、在庫記録へその取引を手渡します。
5. 在庫記録は、そのアイテムの在庫数を増やします。

### 相互関係図



### データ

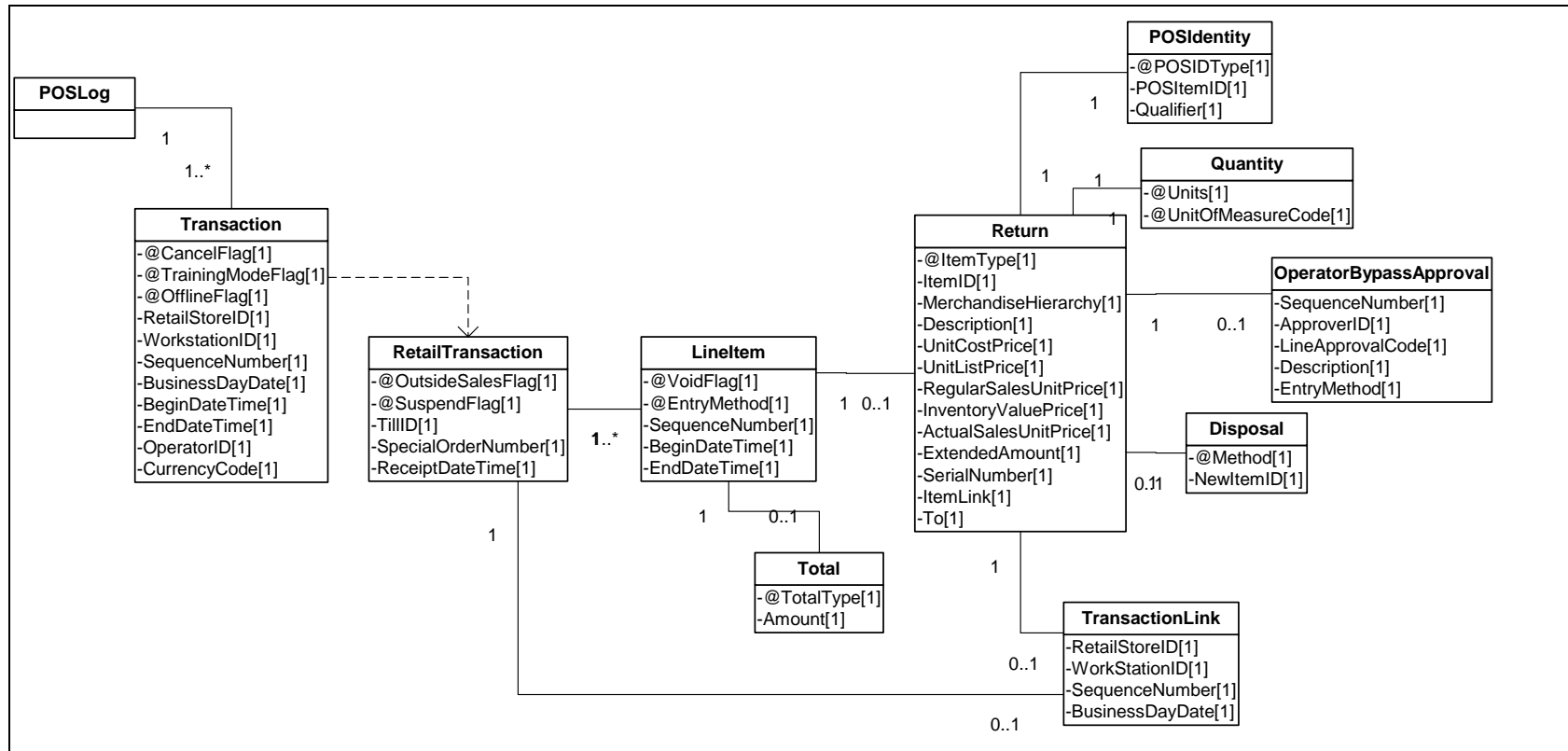
- 以下を含む取引ヘッダーのデータ
  - 店、ワークステーションおよび、取引を実行するオペレーターのそれぞれの識別子

- 取引が実行された日付
- その取引を識別するためのワークステーションで割り振った一連番号
- 以下を含むアイテムのデータ
  - 販売アイテムの部門識別子
  - 部門階層内のどのレベルが、そのアイテムを識別するのに使用されているか
  - 販売アイテムの数量
  - そのアイテムの現在の単価
- 以下を含む返品データ
  - その返品を有効にする、元の購入を識別している取引リンク情報
  - その返品を承認した店長を識別している承認情報
  - その返品されたアイテムの処理方法を識別している処理情報

### データ階層図

追加される独自の支払い拡張機能が、各状況に含まれています。





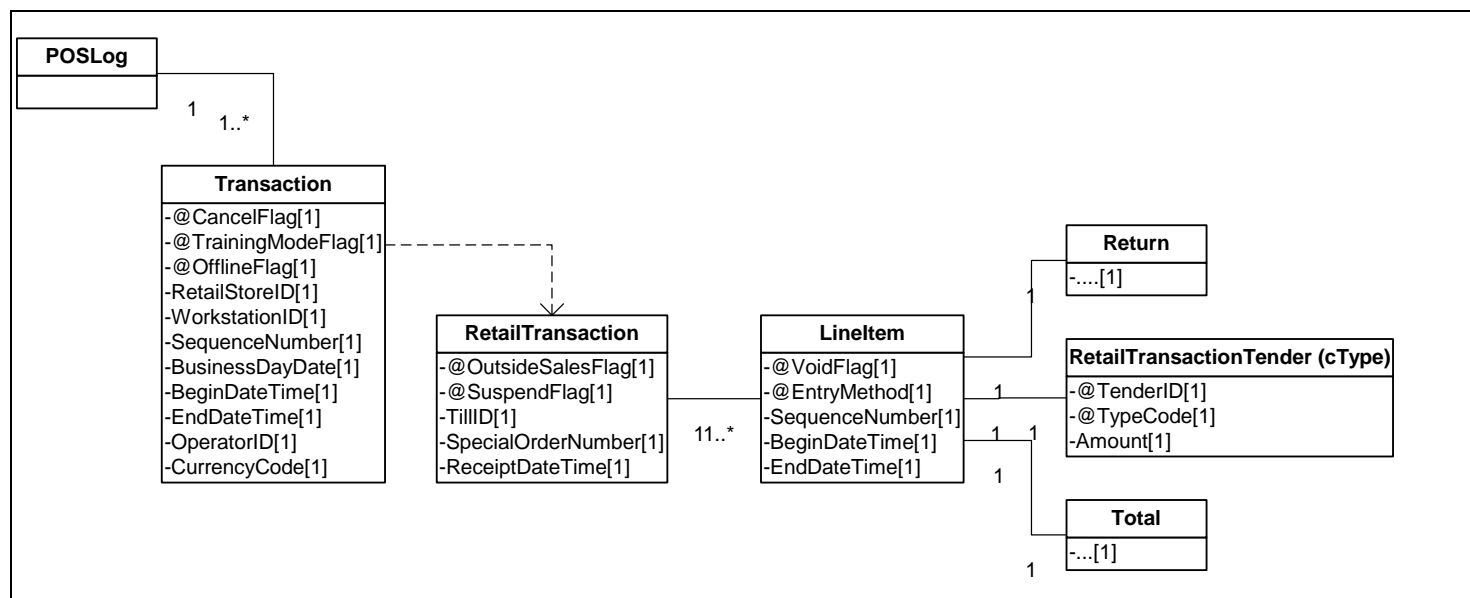
## 4.1 状況：顧客が現金で返金を受ける

### 概略説明

顧客が、あるアイテムを店へ返品し、返金を現金でもらいます。

### データ

### データ階層図



### XML の例

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Return -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransaction.xsd">

```

```
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <LineItem>
      <SequenceNumber>1</SequenceNumber>
      <BeginDateTime>2001-09-16T09:04:00</BeginDateTime>
      <Return ItemType="Stock">
        <POSIdentity>
          <POSItemID>01234567890123</POSItemID>
        </POSIdentity>
        <ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
        <ExtendedAmount>4.89</ExtendedAmount>
        <Quantity>3</Quantity>
        <TransactionLink ReasonCode="Return">
          <RetailStoreID>HighStreet</RetailStoreID>
          <WorkstationID>POS5</WorkstationID>
          <SequenceNumber>42949672912</SequenceNumber>
          <BusinessDayDate>2001-08-12</BusinessDayDate>
        </TransactionLink>
        <Disposal Method="ReturnToStock" />
        <OperatorBypassApproval>
          <SequenceNumber>1</SequenceNumber>
          <ApproverID>45763</ApproverID>
          <LineApprovalCode>AA</LineApprovalCode>
          <EntryMethod>MSR</EntryMethod>
        </OperatorBypassApproval>
      </Return>
    </LineItem>
    <LineItem>
      <SequenceNumber>2</SequenceNumber>
      <Tender TenderID="Cash" TypeCode="Refund">
        <Amount>4.89</Amount>
      </Tender>
    </LineItem>
    <Total TotalType="TransactionGrandAmount">
      <Amount>4.89</Amount>
    </Total>
  </RetailTransaction>
</Transaction>
</POSLog>
```

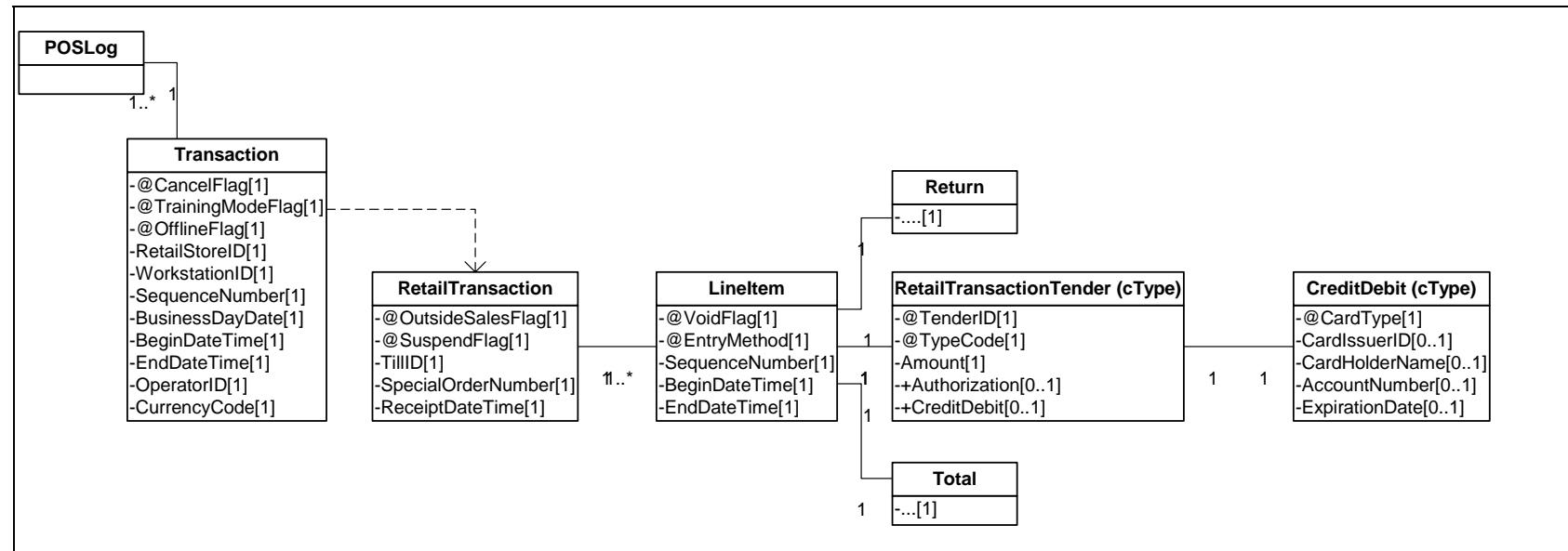
## 4.2 Scenario: Customer Gets Refund on Their Credit Card

### Brief Description

Customer returns an item to a store, and gets the refund on their credit card.

### Data

### Data Hierarchy Diagram



### Example XML

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Return -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  
```

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```
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransaction.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <LineItem>
      <SequenceNumber>1</SequenceNumber>
      <BeginDateTime>2001-09-16T09:04:00</BeginDateTime>
      <Return ItemType="Stock">
        <POSIdentity>
          <POSItemID>01234567890123</POSItemID>
        </POSIdentity>
        <ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
        <ExtendedAmount>4.89</ExtendedAmount>
        <Quantity>3</Quantity>
        <TransactionLink ReasonCode="Return">
          <RetailStoreID>HighStreet</RetailStoreID>
          <WorkstationID>POS5</WorkstationID>
          <SequenceNumber>42949672912</SequenceNumber>
          <BusinessDayDate>2001-08-12</BusinessDayDate>
        </TransactionLink>
        <Disposal Method="ReturnToStock"/>
        <OperatorBypassApproval>
          <SequenceNumber>1</SequenceNumber>
          <ApproverID>45763</ApproverID>
          <LineApprovalCode>AA</LineApprovalCode>
          <EntryMethod>MSR</EntryMethod>
        </OperatorBypassApproval>
      </Return>
    </LineItem>
    <LineItem>
      <SequenceNumber>2</SequenceNumber>
      <Tender TenderID="CreditDebit" TypeCode="Refund">
        <Amount>4.89</Amount>
        <CreditDebit CardType="Credit">
          <IssuerIdentificationNumber>123456789</IssuerIdentificationNumber>
          <CardHolderName>Joe Cool</CardHolderName>
          <PrimaryAccountNumber>12345678</PrimaryAccountNumber>
          <ExpirationDate>2005-09-16</ExpirationDate>
        </CreditDebit>
      </Tender>
    </LineItem>
  </RetailTransaction>
</Transaction>
```

```

</LineItem>
  <Total TotalType="TransactionGrandAmount">
    <Amount>4.89</Amount>
  </Total>
</RetailTransaction>
</Transaction>
</POSLog>
    
```

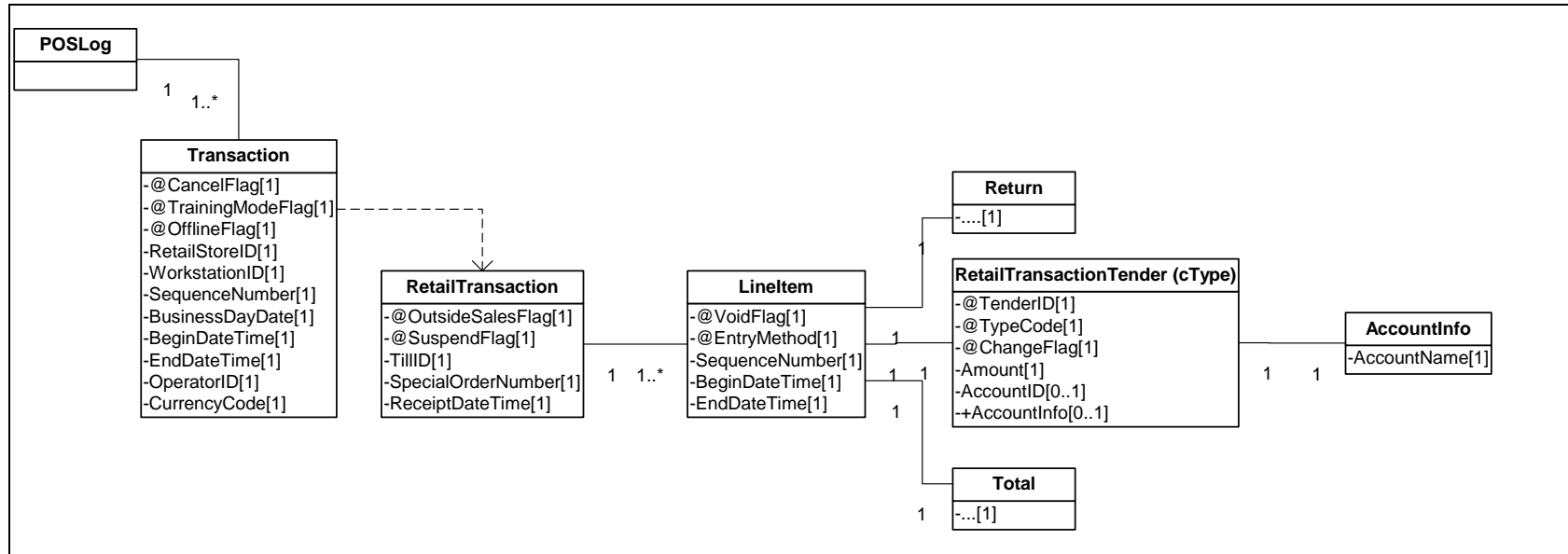
### 4.3 Scenario: Customer Gets Refund on Their Store Account

#### Brief Description

Customer returns an item to a store, and gets the refund on their store account

#### Data

#### Data Hierarchy Diagram



### Example XML

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Return -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
  <Transaction>
    <RetailTransaction Version="1.0">
      <RetailStoreID>HighStreet</RetailStoreID>
      <WorkstationID>POS5</WorkstationID>
      <SequenceNumber>4294967295</SequenceNumber>
      <BusinessDayDate>2001-08-13</BusinessDayDate>
      <LineItem>
        <SequenceNumber>1</SequenceNumber>
        <BeginDateTime>2001-09-16T09:04:00</BeginDateTime>
        <Return ItemType="Stock">
          <POSIdentity>
            <POSItemID>01234567890123</POSItemID>
          </POSIdentity>
          <ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
          <ExtendedAmount>4.89</ExtendedAmount>
          <Quantity>3</Quantity>
          <TransactionLink ReasonCode="Return">
            <RetailStoreID>HighStreet</RetailStoreID>
            <WorkstationID>POS5</WorkstationID>
            <SequenceNumber>42949672912</SequenceNumber>
            <BusinessDayDate>2001-08-12</BusinessDayDate>
          </TransactionLink>
          <Disposal Method="ReturnToStock"/>
          <OperatorBypassApproval>
            <SequenceNumber>1</SequenceNumber>
            <ApproverID>45763</ApproverID>
            <LineApprovalCode>AA</LineApprovalCode>
            <EntryMethod>MSR</EntryMethod>
          </OperatorBypassApproval>
        </Return>
      </LineItem>
      <LineItem>
        <SequenceNumber>2</SequenceNumber>
        <Tender TenderID="StoreAccount" TypeCode="Refund">
          <Amount>4.89</Amount>
          <AccountID>1234</AccountID>
        </Tender>
      </LineItem>
    </RetailTransaction>
  </Transaction>
</POSLog>
```

```
<AccountInfo>
  <AccountName>Joe Cool</AccountName>
</AccountInfo>
</Tender>
</LineItem>
<Total TotalType="TransactionGrandAmount">
  <Amount>4.89</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```

### 4.4 Scenario: Customer Gets Refund in Merchandise Voucher

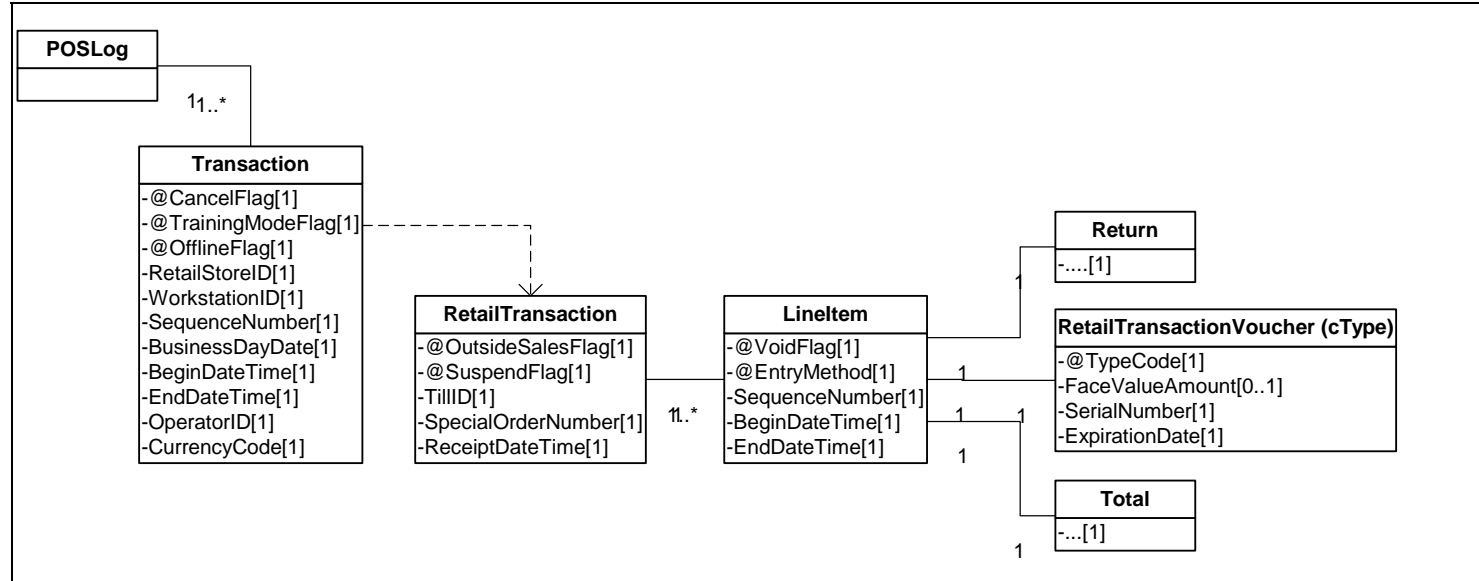
#### Brief Description

Customer returns an item to a store, and gets a store voucher.



Data

Data Hierarchy Diagram



Example XML

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Return -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
  <Transaction>
    <RetailTransaction Version="1.0">
      <RetailStoreID>HighStreet</RetailStoreID>
      <WorkstationID>POS5</WorkstationID>
      <SequenceNumber>4294967295</SequenceNumber>
      <BusinessDayDate>2001-08-13</BusinessDayDate>
      <LineItem>
        <SequenceNumber>1</SequenceNumber>
        <BeginDateTime>2001-09-16T09:04:00</BeginDateTime>
      </LineItem>
    </RetailTransaction>
  </Transaction>
</POSLog>
    
```

```
<Return ItemType="Stock">
  <POSIdentity>
    <POSItemID>01234567890123</POSItemID>
  </POSIdentity>
  <ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
  <ExtendedAmount>4.89</ExtendedAmount>
  <Quantity>3</Quantity>
  <TransactionLink ReasonCode="Return">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>42949672912</SequenceNumber>
    <BusinessDayDate>2001-08-12</BusinessDayDate>
  </TransactionLink>
  <Disposal Method="ReturnToStock" />
  <OperatorBypassApproval>
    <SequenceNumber>1</SequenceNumber>
    <ApproverID>45763</ApproverID>
    <LineApprovalCode>AA</LineApprovalCode>
    <EntryMethod>MSR</EntryMethod>
  </OperatorBypassApproval>
</Return>
</LineItem>
<LineItem>
  <SequenceNumber>2</SequenceNumber>
  <Tender TenderID="Voucher" TypeCode="Refund">
    <Amount>4.89</Amount>
    <Voucher TypeCode="GiftCertificate">
      <FaceValueAmount>4.89</FaceValueAmount>
      <SerialNumber>12345678</SerialNumber>
      <ExpirationDate>2003-04-03</ExpirationDate>
    </Voucher>
  </Tender>
</LineItem>
<Total TotalType="TransactionGrandAmount">
  <Amount>4.89</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```

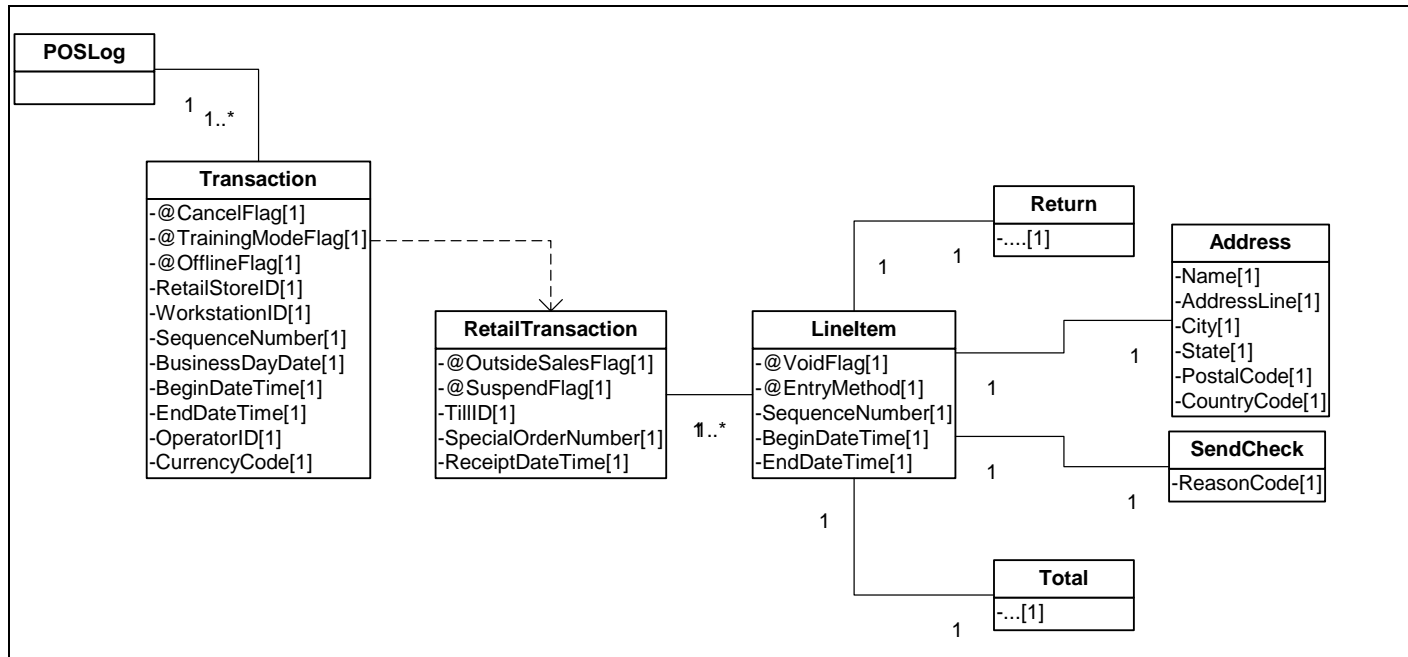
## 4.5 Scenario: Customer Gets Refund in a Check Sent to an Address

### Brief Description

Customer returns an item to a store, and a check is sent to the customer's home address.

### Data

### Data Hierarchy Diagram



### Example XML

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Return -->
<!-- Note: Addition of Disposal and OperatorBypassApproval elements -->
<!-- Inclusion of TransactionLink at line item level to validate the return -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"

```

```
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <LineItem>
      <SequenceNumber>1</SequenceNumber>
      <BeginDateTime>2001-09-16T09:04:00</BeginDateTime>
      <Return ItemType="Stock">
        <POSIdentity>
          <POSItemID>01234567890123</POSItemID>
        </POSIdentity>
        <ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
        <ExtendedAmount>4.89</ExtendedAmount>
        <Quantity>3</Quantity>
        <TransactionLink ReasonCode="Return">
          <RetailStoreID>HighStreet</RetailStoreID>
          <WorkstationID>POS5</WorkstationID>
          <SequenceNumber>42949672912</SequenceNumber>
          <BusinessDayDate>2001-08-12</BusinessDayDate>
        </TransactionLink>
        <Disposal Method="ReturnToStock"/>
        <OperatorBypassApproval>
          <SequenceNumber>1</SequenceNumber>
          <ApproverID>45763</ApproverID>
          <LineApprovalCode>AA</LineApprovalCode>
          <EntryMethod>MSR</EntryMethod>
        </OperatorBypassApproval>
      </Return>
    </LineItem>
    <LineItem>
      <SequenceNumber>2</SequenceNumber>
      <Tender TenderID="Check" TypeCode="Refund">
        <Amount>4.89</Amount>
        <CustomerIdentification>1234</CustomerIdentification>
        <Address>
          <Name>Joe Cool</Name>
          <AddressLine>123 Main Street</AddressLine>
          <City>Mustang</City>
          <State>Oklahoma</State>
        </Address>
      </Tender>
    </LineItem>
  </RetailTransaction>
</Transaction>
```

```
<PostalCode>123456</PostalCode>
  <CountryCode>USA</CountryCode>
</Address>
<SendCheck>
  <ReasonCode>Too much money</ReasonCode>
</SendCheck>
</Tender>
</LineItem>
<Total TotalType="TransactionGrandAmount">
  <Amount>4.89</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```

## 5. USE CASE: POST PURCHASE PRICE ADJUSTMENT

---

### 5.1 Scenario: Customer Gets Refund in Cash After Returning to the Store

#### Brief Description

Customer purchases an item. On the way to the car, the customer realizes she was overcharged for the item. She returns to the store and gets cash for the difference.

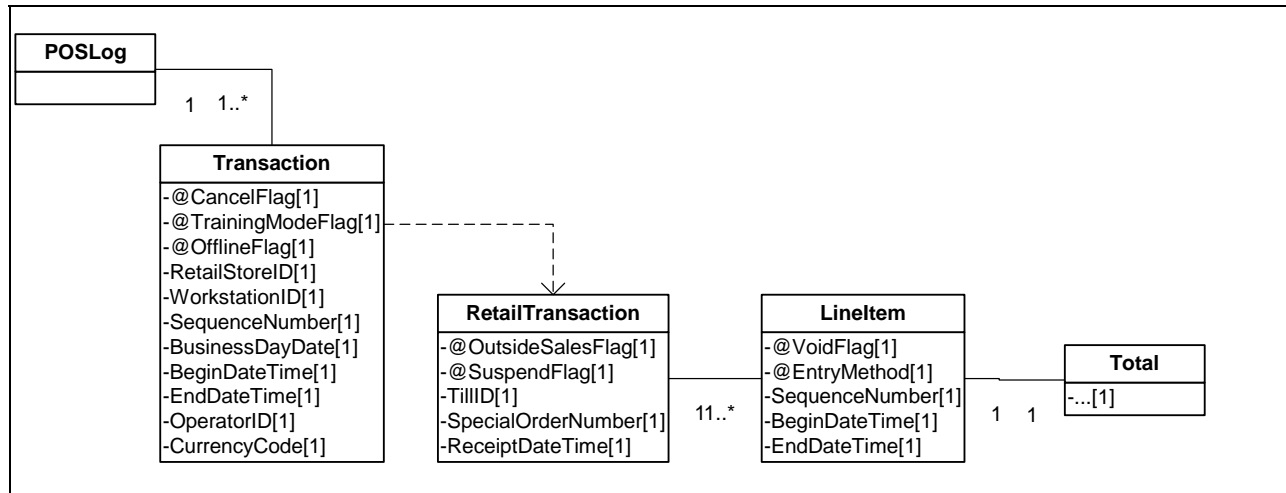
#### Flow Description

1. Customer purchases an item.
2. Customer leaves the store and heads for his car.
3. On the way to the car, he realizes he paid the wrong amount and returns to the store.
4. The Manager refunds the difference between what was actually paid and what should have been paid.

#### Data

- Transaction header data, including:
  - Identifiers for Store, Workstation, & Operator performing the transaction.
  - The date & time the transaction was performed
  - A workstation assigned sequence number identifying the transaction
- The Tender Information
  - Refund Amount of the Difference

Data Hierarchy Diagram



IXRetail Example XML

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Return -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
  <Transaction>
    <RetailTransaction Version="1.0">
      <RetailStoreID>HighStreet</RetailStoreID>
      <WorkstationID>POS5</WorkstationID>
      <SequenceNumber>4294967295</SequenceNumber>
      <BusinessDayDate>2001-08-13</BusinessDayDate>
      <LinelItem>
        <SequenceNumber>1</SequenceNumber>
        <Tender TenderID="Cash" TypeCode="Refund">
          <Amount>4.89</Amount>
          <ReasonCode>Overcharged Customer</ReasonCode>
        </Tender>
      </LinelItem>
      <Total TotalType="TransactionGrandAmount">

```

```
<Amount>4.89</Amount>
</Total>
</RetailTransaction>
</Transaction>
</POSLog>
```



## 6. USE CASE: MERCHANDISE FOR STORE USE

---

### 6.1 Scenario: Employee Takes an Item Off the Shelf For Use in the Store

#### Brief Description

An employee takes an item off the shelf to use in the store. The store charges the purchase against the store account.

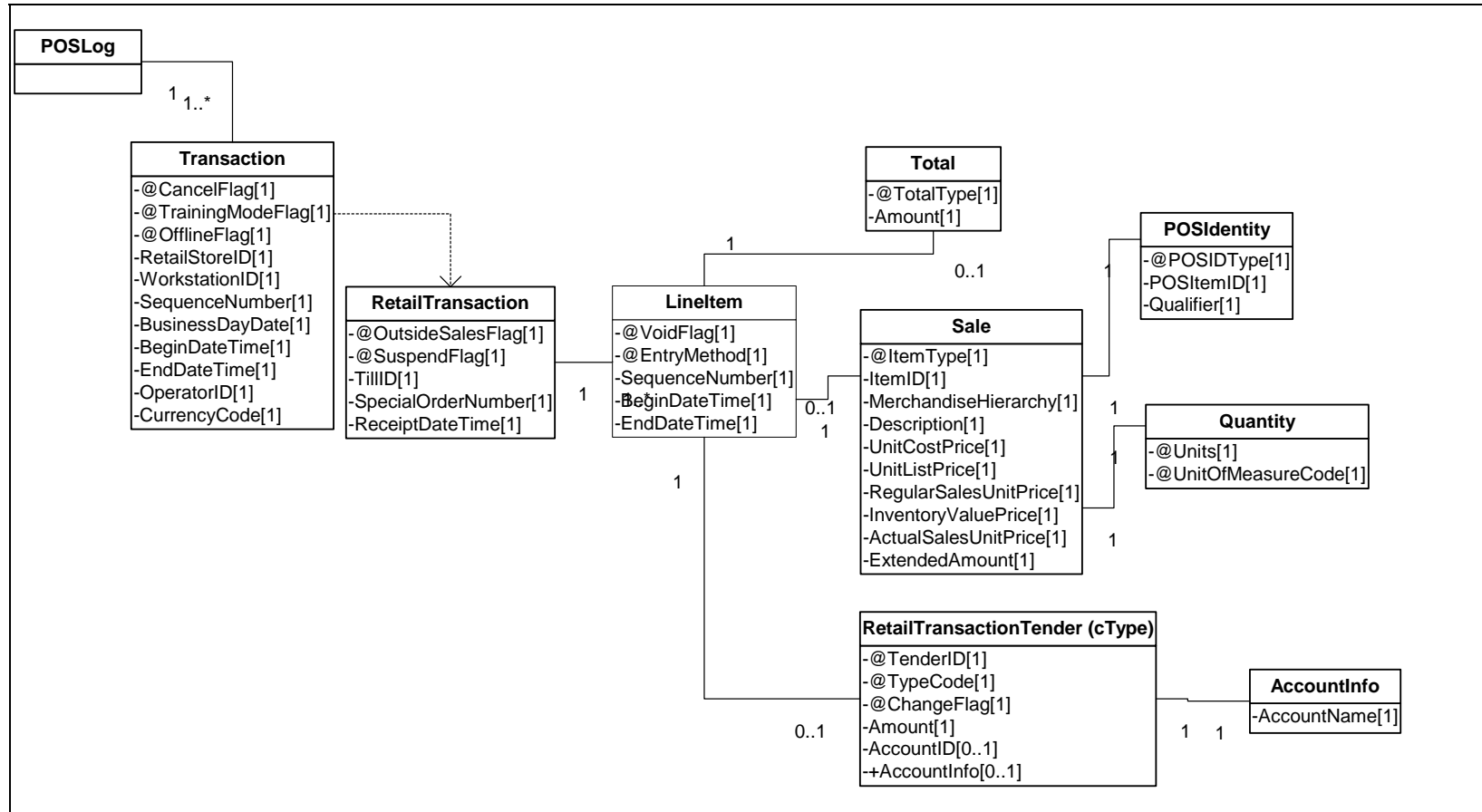
#### Flow Description

1. An Employee brings an item, for use in the store, to the POS to be rung up.
2. Cashier enters the item into the POS, and charges the item to the store account.
3. POS reports the transaction to POS-Log.
4. POS-Log presents the transaction to Stock Recording & Sales History.
5. Stock Recording System decrements the inventory counts for the item(s).

#### Data

- Transaction header data, including:
  - Identifiers for Store, Workstation, & Operator performing the transaction.
  - The date & time the transaction was performed
  - A workstation assigned sequence number identifying the transaction
- Item sale data, including:
  - An identifier for the item being sold.
  - The number of multiples of the item being sold.
  - Unit price for the item being sold.
  - The extended amount (i.e. Unit price \* the number of items being sold)
- The Tender Information
  - Store Account Number
  - Amount of the Sale

Data Hierarchy Diagram



### Example XML

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Purchase from shelf -->
<POSLog xmlns="http://www.nrf-arts.org/IXRetail/namespace/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ POSLogRetailTransactionStockView.xsd">
<Transaction>
  <RetailTransaction Version="1.0">
    <RetailStoreID>HighStreet</RetailStoreID>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <BusinessDayDate>2001-08-13</BusinessDayDate>
    <BeginDateTime>2001-08-13T09:03:00</BeginDateTime>
    <LineItem>
      <SequenceNumber>1</SequenceNumber>
      <Sale ItemType="Stock">
        <POSIdentity>
          <POSItemID>01234567890123</POSItemID>
        </POSIdentity>
        <ActualSalesUnitPrice>1.63</ActualSalesUnitPrice>
        <ExtendedAmount>4.89</ExtendedAmount>
        <Quantity>3</Quantity>
      </Sale>
    </LineItem>
    <LineItem>
      <SequenceNumber>2</SequenceNumber>
      <Tender TenderID="StoreAccount" TypeCode="Sale">
        <Amount>4.89</Amount>
        <AccountID>5678</AccountID>
        <AccountInfo>
          <AccountName>HighStreet</AccountName>
        </AccountInfo>
      </Tender>
    </LineItem>
    <Total TotalType="TransactionGrandAmount">
      <Amount>4.89</Amount>
    </Total>
  </RetailTransaction>
</Transaction>
</POSLog>
```

## **7. SCHEMA IMPLEMENTATION**

---

POSLog.XSD – the base schema

POSLogLibrary.XSD –

POSLogLibraryRetailTransaction.XSD

POSLogRetailTransaction.XSD

POSLogRetailTransactionLineItem.XSD

POSLogRetailTransactionLoyalty.XSD

POSLogRetailTransactionTax.XSD

POSLogRetailTransactionTender.XSD

POSLogTransaction.XSD

POSLogControlTransaction.XSD

POSLogFoodServiceTransaction.XSD

POSLogForeCourtTransaction.XSD

POSLogTenderControlTransaction.XSD

**8. DOCUMENT HISTORY**

---

Version History

Ver	Date	Sections	Description of Change
2.0	2003-04-02	All	- Created Tendering Volume

**9. GLOSSARY**

Term	Definition