



# **ARTS POSLog V6.0**

**Volume 20: Tender Control Transactions Technical Specification**  
February 10, 2014 – Last Call Working Draft

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## **1. Abstract**

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### **1.1 Overview**

### **1.2 In Scope**

### **1.3 Out of Scope**

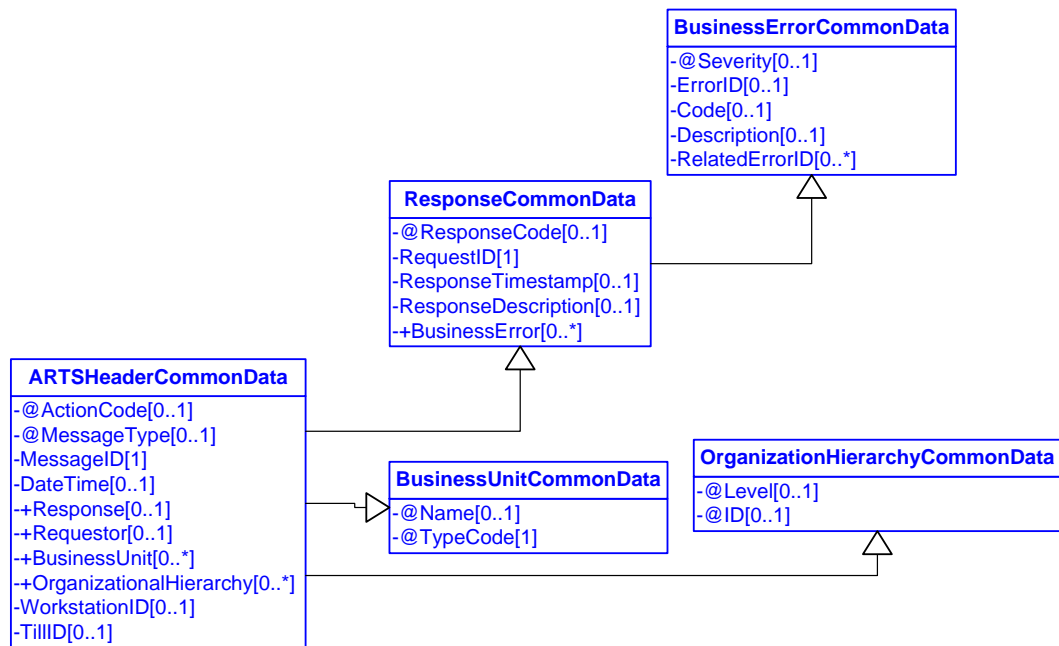
## 2. Referenced Documents

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- **ARTS Technical Committees Development Process V6.0.4 2009/11/30**
- **ARTS XML Best Practices V2.2 2010/11/11**
- **ARTS Best Practice for Process Modeling V1.0.0 2011/01/04**
- **A RTS SOA Best Practices Technical Report V1.2**
- **ARTS XML Interface Conformance Tool Manual V1.0 2005/08/11**

These documents are available for download from <http://nrf.com>

### 3. ARTS Common Header



**Figure 1: ARTS Common Header Domain View**

The ARTS common header is used in all service name schemas. It provides the ability to set session level information and return business error information in one standard format to all SOA implementations.



**Figure 2: ARTS Common Header Representation**

Since this structure is common to all service name schemas, it will not be replicated below. In place of the details, the attached box will be used to represent this complex type structure.

### 4. Use Case: EOD

#### 4.1 Scenario: EOD TillSettle (V2.2)

##### Brief Description

Operators count the till bank, (or the closing float) (reported as a Pickup to reduce the session balance), and then they do a Till declaration to count the remaining money (which should balance against the new session total) that will be forwarded with a receipt to the cash office. In the morning, they count the till bank again (as the Opening Float) reported as a Till Loan increasing the new Session total to match. Then during the day they do Pickups and Loans as required.

TillDeclaration (POSLogAmount) in the TillSettle to report the amount of money left in the till.

#### 4.1 Conformance XML Instance Document - EOD Till Settle

```
<?xml version="1.0" encoding="UTF-8"?>
<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/
  ../POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID>HighStreet</UnitID>
    </BusinessUnit>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <POSLogDateTime TypeCode="Transaction">2001-08-
13T09:01:00</POSLogDateTime>
    <OperatorID>John</OperatorID>
    <TenderControlTransaction>
      <TillSettle>
        <TenderSummary>
          <Ending TenderType="Cash">
            <Amount>100.00</Amount>
          </Ending>
        </TenderSummary>
      </TillSettle>
    </TenderControlTransaction>
  </Transaction>
</POSLog>
```

### 5. Use Case: Tender Redemption

---

#### 5.1 Scenario: Tender Overpayment with Refund (V2.2)

##### Brief Description

Scenario: There are cash/note acceptors at the pump. Conceptually if entered \$20 in acceptor, get \$18 of gas, get \$2 voucher

1. The customer puts the cash in and pumps the gas. The transaction is finalized. There is a paper printed and taken inside for refund. This requires the ability to link two transactions together. The one at the pump and the refund at the POS.
  - a. Sometimes dealt with as change code (voucher similar to wash code) to be used to in the next transaction
  - b. Sometimes an ATM type machine gives change immediately.
2. Customer gets gas, pays \$20 in acceptor, transaction is tracked and closed out inside store.

- a. The note acceptor can either be an extension of the inside POS or
- b. As an alternative to the CC equipment at the pump.

Want to be able to bring up a previous transaction and VOID it, creating a new transaction with a link to the old transaction. Therefore there should be a linked list back to the original transaction.

### 5.1a Conformance XML Instance Document - Purchase Overpayment with Voucher

```
<?xml version="1.0" encoding="UTF-8"?>
<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/
    ../POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID>HighStreet</UnitID>
    </BusinessUnit>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>101</SequenceNumber>
    <POSLogDateTime TypeCode="Transaction">2001-08-
13T09:01:00</POSLogDateTime>
    <OperatorID>John</OperatorID>
    <TenderControlTransaction>
      <TenderRedemption>
        <Voucher TypeCode="Voucher">
          <FaceValueAmount>2.00</FaceValueAmount>
          <SerialNumber>12431234</SerialNumber>
        </Voucher>
        <Tender TypeCode="Refund">
          <Amount>2.00</Amount>
        </Tender>
        <TransactionLink>
          <TransactionID>100</TransactionID>
        </TransactionLink>
      </TenderRedemption>
    </TenderControlTransaction>
  </Transaction>
</POSLog>
```

### 5.1b Conformance XML Instance Document – Voucher Redemption

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



```
../POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
    <Transaction>
      <BusinessUnit>
        <UnitID>HighStreet</UnitID>
      </BusinessUnit>
      <WorkstationID>POS5</WorkstationID>
      <SequenceNumber>100</SequenceNumber>
      <POSLogDateTime TypeCode="Transaction">2001-08-
13T09:01:00</POSLogDateTime>
      <OperatorID>John</OperatorID>
      <RetailTransaction>
        <LineItem>
          <FuelSale>
            <POSIdentity>
              <POSItemID>1234</POSItemID>
            </POSIdentity>
            <ExtendedAmount>18.00</ExtendedAmount>
            <Quantity UnitOfMeasureCode="GLL">6</Quantity>
          </FuelSale>
          <SequenceNumber>1</SequenceNumber>
        </LineItem>
        <LineItem>
          <Tender>
            <Amount>20.00</Amount>
            <TenderChange TenderType="Voucher">
              <Amount>2.00</Amount>
              <Voucher TypeCode="Voucher">
                <SerialNumber>12431234</SerialNumber>
              </Voucher>
            </TenderChange>
          </Tender>
          <SequenceNumber>2</SequenceNumber>
        </LineItem>
      </RetailTransaction>
    </Transaction>
  </POSLog>
```

---

## 6. Use Case: Money Paid In and Paid out

These scenarios deal with various ways money is paid out of the till that are not tied to selling items.

## 6.1 Scenario: Paid in (V6.0)

### Brief Description

These scenarios deal with various ways money is paid into the till that are not tied to selling items.

### Scenario Description

The Manager receives money from the flower vendor that wants to put flowers in the front of the store and is required to pay for this service.

## 6.1 Conformance XML Instance Document – Paid In

```
<?xml version="1.0" encoding="UTF-8"?>
<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/
  ..\POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID TypeCode="RetailStore">12</UnitID>
    </BusinessUnit>
    <WorkstationID TypeCode="POS">5</WorkstationID>
    <SequenceNumber>12346</SequenceNumber>
    <OperatorID OperatorName="John"
  OperatorType="Cashier">205</OperatorID>
    <BusinessDayDate>2011-11-11</BusinessDayDate>
    <BeginDateTime>2011-11-11T20:20:20</BeginDateTime>
    <EndDateTime>2011-11-11T20:20:21</EndDateTime>
    <TenderControlTransaction>
      <PaidIn TenderType="Cash">
        <Amount Currency="USD">10.00</Amount>
        <Reason>pay In for flower vendor</Reason>
      </PaidIn>
    </TenderControlTransaction>
  </Transaction>
</POSLog>
```

## 6.2 Scenario: Paid out (V2.2)

### Brief Description

These scenarios deal with various ways money is paid out of the till that are not tied to selling items.

### Scenario Description

The Manager buys flowers from the flower store and is required to pay for this service.

## 6.2 Conformance XML Instance Document – Paid Out

```
<?xml version="1.0" encoding="UTF-8"?>
<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/
  ..\POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID TypeCode="RetailStore">12</UnitID>
    </BusinessUnit>
    <WorkstationID TypeCode="POS">5</WorkstationID>
    <SequenceNumber>12346</SequenceNumber>
    <OperatorID OperatorName="John"
  OperatorType="Cashier">205</OperatorID>
    <BusinessDayDate>2011-11-11</BusinessDayDate>
    <BeginDateTime>2011-11-11T20:20:20</BeginDateTime>
    <EndDateTime>2011-11-11T20:20:21</EndDateTime>
    <TenderControlTransaction>
      <PaidOut>
        <Amount>15.00</Amount>
        <Reason>paid out for flower store</Reason>
      </PaidOut>
    </TenderControlTransaction>
  </Transaction>
</POSLog>
```

**Scenario: Bank Deposit (V2.1)****Brief Description**

A Store Cash Office clerk would like to be able send money to the store Bank Account and reduce total cash in the store safe and accommodating money flow out to the bank

As part of the 'Bank Deposit' activity- have the ability to enter the total amount per each received tender

**0 Conformance XML Instance Document – Bank Deposit**

```
<?xml version="1.0" encoding="UTF-8"?>
<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/
  ../POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID TypeCode="RetailStore">12</UnitID>
    </BusinessUnit>
    <WorkstationID TypeCode="POS">5</WorkstationID>
    <SequenceNumber>12346</SequenceNumber>
    <OperatorID OperatorName="John"
  OperatorType="Cashier">205</OperatorID>
    <BusinessDayDate>2011-11-11</BusinessDayDate>
    <BeginDateTime>2011-11-11T20:20:20</BeginDateTime>
    <EndDateTime>2011-11-11T20:20:21</EndDateTime>
    <TenderControlTransaction>
      <Deposit>
        <Bank>8f2b126c-8d04-47d9-b344-d3108616a110</Bank>
        <Account>a376b22e-514b-400b-9ff7-ce75807ec719</Account>
        <BagID>12</BagID>
        <Amount Currency="USD">1600.00</Amount>
        <Depositor>21324</Depositor>
        <DepositDetail>
          <TenderTotals TenderType="Cash"
  Denomination="10">100.00</TenderTotal>
          <TenderTotals TenderType="Cash"
  Denomination="20">500.00</TenderTotal>
          <TenderTotals TenderType="Cash"
  Denomination="50">1000.00</TenderTotal>
          <Reason>bank Deposit</Reason>
        </DepositDetail>
      </Deposit>
    </TenderControlTransaction>
  </Transaction>
</POSLog>
```

### 6.3 Scenario: Petty Cash Expense (V2.1)

#### Brief Description

A small amount of cash set aside to be used for minor business expenses or when it isn't feasible to go through the normal voucher and check procedure to buy an item

#### 6.3 Conformance XML Instance Document – Petty Cash Expense

```
<?xml version="1.0" encoding="UTF-8"?>
<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/
  ..\POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID TypeCode="RetailStore">12</UnitID>
    </BusinessUnit>
    <WorkstationID TypeCode="POS">5</WorkstationID>
    <SequenceNumber>12346</SequenceNumber>
    <OperatorID OperatorName="John"
  OperatorType="Cashier">205</OperatorID>
    <BusinessDayDate>2011-11-11</BusinessDayDate>
    <BeginDateTime>2011-11-11T20:20:20</BeginDateTime>
    <EndDateTime>2011-11-11T20:20:21</EndDateTime>
    <TenderControlTransaction>
      <PettyCash TenderType="Cash">
        <Amount Currency="USD">10.00</Amount>
        <Reason>pay for front window sign</Reason>
      </PettyCash>
    </TenderControlTransaction>
  </Transaction>
</POSLog>
```

### 6.4 Scenario: Wages (V2.2)

#### Brief Description

Reporting money taken out of the till to pay the wages of a temporary associate.

#### 6.4 Conformance XML Instance Document – Wages

```
<?xml version="1.0" encoding="UTF-8"?>
<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/
  ..\POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
```

```
        <UnitID TypeCode="RetailStore">12</UnitID>
    </BusinessUnit>
    <WorkstationID TypeCode="POS">5</WorkstationID>
    <SequenceNumber>12346</SequenceNumber>
    <OperatorID OperatorName="John"
OperatorType="Cashier">205</OperatorID>
    <BusinessDayDate>2011-11-11</BusinessDayDate>
    <BeginDateTime>2011-11-11T20:20:20</BeginDateTime>
    <EndDateTime>2011-11-11T20:20:21</EndDateTime>
    <TenderControlTransaction>
        <PaidOut TenderType="Cash">
            <Amount>150.00</Amount>
            <Reason>paid fred's wages</Reason>
        </PaidOut>
    </TenderControlTransaction>
</Transaction>
</POSLog>
```

---

## 7. Use case: Totals

### 7.1 Scenario: Cashier Totals (V2.2)

#### 7.1 Conformance XML Instance Document – Cashier Totals

```
<?xml version="1.0" encoding="UTF-8"?>
<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/
..\POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
    <Transaction>
        <BusinessUnit>
            <UnitID TypeCode="RetailStore">12</UnitID>
        </BusinessUnit>
        <WorkstationID TypeCode="POS">5</WorkstationID>
        <SequenceNumber>12346</SequenceNumber>
        <OperatorID OperatorName="John"
OperatorType="Cashier">205</OperatorID>
        <BusinessDayDate>2011-11-11</BusinessDayDate>
        <BeginDateTime>2011-11-11T20:20:20</BeginDateTime>
        <EndDateTime>2011-11-11T20:20:21</EndDateTime>
        <TenderControlTransaction>
            <TillSettle>
                <TransactionCount>2</TransactionCount>
                <TotalNetSalesAmount>10000</TotalNetSalesAmount>
                <TotalTaxAmount>600</TotalTaxAmount>
            </TillSettle>
        </TenderControlTransaction>
    </Transaction>
</POSLog>
```

```
<TotalGrossSalesExemptTaxAmount>0</TotalGrossSalesExemptTaxAmount>
  <GrossPositiveAmount>0</GrossPositiveAmount>
  <GrossNegativeAmount>0</GrossNegativeAmount>
  <TotalMeasures>
    <SaleLineItemCount>300</SaleLineItemCount>
    <NoSaleTransactionCount>10</NoSaleTransactionCount>
    <LineItemOverrideCount>50</LineItemOverrideCount>
    <WeightedLineItemCount>0</WeightedLineItemCount>
    <LineItemKeyedCount>40</LineItemKeyedCount>
    <LineItemKeyedPercentage>11</LineItemKeyedPercentage>
    <LineItemScannedCount>250</LineItemScannedCount>

<LineItemScannedPercentage>17</LineItemScannedPercentage>

<LineItemOpenDepartmentCount>10</LineItemOpenDepartmentCount>

<LineItemOpenDepartmentPercentage>3</LineItemOpenDepartmentPercentage>
  <RingTime>530</RingTime>
  <IdleTime>100</IdleTime>
  <LockTime>300</LockTime>
  <TenderTime>200</TenderTime>
  </TotalMeasures>
</TillSettle>
</TenderControlTransaction>
</Transaction>
</POSLog>
```

## 7.2 Scenario: Tender Totals (V2.2)

### 7.2 Conformance XML Instance Document – Tender Totals

```
<?xml version="1.0" encoding="UTF-8"?>
<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/
  ..\POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID TypeCode="RetailStore">12</UnitID>
    </BusinessUnit>
    <WorkstationID TypeCode="POS">5</WorkstationID>
    <SequenceNumber>12346</SequenceNumber>
    <OperatorID OperatorName="John"
  OperatorType="Cashier">205</OperatorID>
```

```
<BusinessDayDate>2011-11-11</BusinessDayDate>
<BeginDateTime>2011-11-11T20:20:20</BeginDateTime>
<EndDateTime>2011-11-11T20:20:21</EndDateTime>
<TenderControlTransaction>
  <TillSettle>
    <TransactionCount>2</TransactionCount>
    <TotalNetSalesAmount>10000</TotalNetSalesAmount>
    <TotalTaxAmount>600</TotalTaxAmount>

  <TotalGrossSalesExemptTaxAmount>0</TotalGrossSalesExemptTaxAmount>
  <GrossPositiveAmount>0</GrossPositiveAmount>
  <GrossNegativeAmount>0</GrossNegativeAmount>
  <TenderSummary>
    <Beginning TenderType="CreditDebit" SubTenderType="Visa">
      <Amount>0</Amount>
    </Beginning>
    <Ending TenderType="CreditDebit" SubTenderType="Visa">
      <Amount>4000</Amount>
    </Ending>
  </TenderSummary>
  <TotalMeasures>
    <SaleLineItemCount>300</SaleLineItemCount>
    <NoSaleTransactionCount>10</NoSaleTransactionCount>
    <LineItemOverrideCount>50</LineItemOverrideCount>
    <WeightedLineItemCount>0</WeightedLineItemCount>
    <LineItemKeyedCount>40</LineItemKeyedCount>
    <LineItemKeyedPercentage>11</LineItemKeyedPercentage>
    <LineItemScannedCount>250</LineItemScannedCount>

  <LineItemScannedPercentage>17</LineItemScannedPercentage>

  <LineItemOpenDepartmentCount>10</LineItemOpenDepartmentCount>

  <LineItemOpenDepartmentPercentage>3</LineItemOpenDepartmentPercentage>
    <RingTime>530</RingTime>
    <IdleTime>100</IdleTime>
    <LockTime>300</LockTime>
    <TenderTime>200</TenderTime>
  </TotalMeasures>
</TillSettle>
</TenderControlTransaction>
</Transaction>
</POSLog>
```



## 8. Use Case: Tender Loan - Open Float, Close Float, Till Declaration

---

### 8.1 Scenario: Open Float (V6.0)

#### Brief Description

The Cashier needs money to start her shift at the opening of the day. An amount of money is issued from the Safe as the Opening Float.  
Support also Denomination and Foreign Currency

#### Scenario Description

- Perform Open Loan Function
- Add 50\$ in cash
- Add 100\$ in denomination of 10\$
- Add 100 AUD\$
- End Add Loan

#### 8.1 Conformance XML Instance Document – Open Float

```
<?xml version="1.0" encoding="UTF-8"?>
<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/
    ../POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID TypeCode="RetailStore">12</UnitID>
    </BusinessUnit>
    <WorkstationID TypeCode="POS">5</WorkstationID>
    <SequenceNumber>12346</SequenceNumber>
    <OperatorID OperatorName="John"
  OperatorType="Cashier">205</OperatorID>
    <BusinessDayDate>2011-11-11</BusinessDayDate>
    <BeginDateTime>2011-11-11T20:20:20</BeginDateTime>
    <EndDateTime>2011-11-11T20:20:21</EndDateTime>
    <TenderControlTransaction>
      <TenderLoan TypeCode="OpenFloat">
        <SafeID>1</SafeID>
        <Totals>
          <TenderTotals TenderType="Cash" Currency="USD"
  Denomination="10">100.00
        </TenderTotals>
```

```
        </Totals>
        <Totals>
            <TenderTotals TenderType="Cash"
Currency="USD">50.00</TenderTotals>
        </Totals>
        <Totals>
            <TenderTotals TenderType="Cash"
Currency="USD">50.00</TenderTotals>
            <ForeignCurrency>
                <CurrencyCode>AUD</CurrencyCode>
                <OriginalFaceAmount>100.00</OriginalFaceAmount>
                <ExchangeRate>0.5000</ExchangeRate>
            </ForeignCurrency>
        </Totals>
    </TenderLoan>
</TenderControlTransaction>
</Transaction>
</POSLog>
```

## 8.2 Scenario: Add Loan (V6.0)

### Brief Description

The Cashier needs money for change during the day. Money is issued as a loan from the safe. Support also Denomination and Foreign Currency

### 8.2 Conformance XML Instance Document – Add Loan

```
<?xml version="1.0" encoding="UTF-8"?>
<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/
../POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID TypeCode="RetailStore">12</UnitID>
    </BusinessUnit>
    <WorkstationID TypeCode="POS">5</WorkstationID>
    <SequenceNumber>12346</SequenceNumber>
    <OperatorID OperatorName="John"
OperatorType="Cashier">205</OperatorID>
    <BusinessDayDate>2011-11-11</BusinessDayDate>
    <BeginDateTime>2011-11-11T20:20:20</BeginDateTime>
    <EndDateTime>2011-11-11T20:20:21</EndDateTime>
    <TenderControlTransaction>
      <TenderLoan TypeCode="Normal">
```

```
        <SafeID>1</SafeID>
        <Totals>
            <TenderTotals TenderType="Cash" Currency="USD"
Denomination="10">100.00</TenderTotals>
        </Totals>
    </TenderLoan>
</TenderControlTransaction>
</Transaction>
</POSLog>
```

### 8.3 Scenario: Operator Bypass Approval (V6.0)

#### Brief Description

As a Retailer I would like to add manager approval screen on Tender Control Transactions events like "Open Loan", "Add Loan", etc

Ddata should be written into the T-log with the relevant information so that I will be able to apply analysis on this data

### 8.3 Conformance XML Instance Document – Operator Bypass Approval

```
<?xml version="1.0" encoding="UTF-8"?>
<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/
..\POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID TypeCode="RetailStore">12</UnitID>
    </BusinessUnit>
    <WorkstationID TypeCode="POS">5</WorkstationID>
    <SequenceNumber>12346</SequenceNumber>
    <OperatorID OperatorName="John"
OperatorType="Cashier">205</OperatorID>
    <BusinessDayDate>2011-11-11</BusinessDayDate>
    <BeginDateTime>2011-11-11T20:20:20</BeginDateTime>
    <EndDateTime>2011-11-11T20:20:21</EndDateTime>
    <OperatorBypassApproval>
      <SequenceNumber>1</SequenceNumber>
      <ApproverID OperatorName="Rona" OperatorType="Manager"
>1234</ApproverID>
      <LineApprovalCode>AA</LineApprovalCode>
      <Description>Approval Cashier Add Loan</Description>
      <EntryMethod>Keyed</EntryMethod>
      <ApprovalDateTime>2011-11-11T20:20:20</ApprovalDateTime>
    </OperatorBypassApproval>
```

```
<TenderControlTransaction>
  <TenderLoan TypeCode="Normal">
    <SafeID>1</SafeID>
    <Totals>
      <TenderTotals TenderType="Cash" Currency="USD"
Denomination="10">100.00</TenderTotals>
    </Totals>
  </TenderLoan>
</TenderControlTransaction>
</Transaction>
</POSLog>
```

## 9. Use Case: Tender Pickup

---

### 9.1 Tender Pickup (V6.0)

#### Brief Description

Where Tender is collected from a Till without counting at the Workstation. The element envelope id holds a reference number for this Pickup that during reconciliation can be cross-referenced against the Cash Management system.

#### Scenario Description

A store manager would like to enable a cashier to draw tenders from the POS. The cashier should select the tender + amount + document.

#### Definition of Done

User performs sales activities and hit on pickup' button.

Drawer is open when the POS it at idle state (no sale).

User collects will select tender, count the amount and finished the process

The POS prints 'Till Pickup' slip that contains the Pickup information

#### 9.1 Conformance XML Instance Document – Tender Pickup

```
<?xml version="1.0" encoding="UTF-8"?>
<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/
    ../POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID TypeCode="RetailStore">12</UnitID>
    </BusinessUnit>
    <WorkstationID TypeCode="POS">5</WorkstationID>
    <SequenceNumber>12346</SequenceNumber>
    <OperatorID OperatorName="John"
  OperatorType="Cashier">205</OperatorID>
    <BusinessDayDate>2011-11-11</BusinessDayDate>
    <BeginDateTime>2011-11-11T20:20:20</BeginDateTime>
    <EndDateTime>2011-11-11T20:20:21</EndDateTime>
    <TenderControlTransaction>
      <TenderPickup>
        <Tender>
          <TenderTotal TenderType="Cash">50.00</TenderTotal>
        </Tender>
        <Totals>
          <Amount Currency="USD">50.00</Amount>
        </Totals>
      </TenderPickup>
    </TenderControlTransaction>
  </Transaction>
</POSLog>
```

```
<Totals TenderType="Cash">
  <Amount Currency="USD" Denomination="10">100.00</Amount>
</Totals>
<Totals TenderType="Cash">
  <Amount Currency="USD">50.00</Amount>
  <ForeignCurrency>
    <CurrencyCode>AUD</CurrencyCode>
    <OriginalFaceAmount>100.00</OriginalFaceAmount>
    <ExchangeRate>0.5000</ExchangeRate>
  </ForeignCurrency>
</Totals>
<EnvelopeID>1</EnvelopeID>
</TenderPickup>
</TenderControlTransaction>
</Transaction>
</POSLog>
```

## 9.2 Tender Blind Pickup (Safe Drop) (V6.0)

### Brief Description

A store manager would like to enable a cashier to draw tenders from the POS without counting them so that the pickup will eventually be processed on the office application by the check office clerk and the cashier won't spend time dealing with activities that are not related to sales activities.

### Definition of Done

Cashier performs sales activities and hits on 'Blind pickup' (pre-pickup) button.

Drawer is open when the POS is at idle state (no sale).

Cashier collects all / partial tenders, puts it in the pod (without counting the tenders) and closes the drawer.

The POS prints 'Till Clearance' slip that contains: T.P No, Date, Time, pickup sequence

### Safedrop (ARTS)

Money put into a floor safe during the day.

Typically used when a large sum or denomination of money is received. Similar to Tender Pickup but driven and identified by different business rules

## 9.2 Conformance XML Instance Document – Tender Pickup

```
<?xml version="1.0" encoding="UTF-8"?>
<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/
  ..\POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID TypeCode="RetailStore">12</UnitID>
```

```
</BusinessUnit>
<WorkstationID TypeCode="POS">5</WorkstationID>
<SequenceNumber>12346</SequenceNumber>
<OperatorID OperatorName="John"
OperatorType="Cashier">205</OperatorID>
<BusinessDayDate>2011-11-11</BusinessDayDate>
<BeginDateTime>2011-11-11T20:20:20</BeginDateTime>
<EndDateTime>2011-11-11T20:20:21</EndDateTime>
<TenderControlTransaction>
  <SafeDrop>
    <DropAmount>500.00</DropAmount>
    <EnvelopeID>12345</EnvelopeID>
    <DropNumber>123</DropNumber>
    <SafeID>1</SafeID>
  </SafeDrop>
</TenderControlTransaction>
</Transaction>
</POSLog>
```

## **10. Document History**

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## 11. Version History

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### Version 1.0

#### Overview

#### New Features

Sections	Description of Change
	-

#### Minor fixes

#### Deprecation

Sections	Description of Change
	-

#### Compatibility/Dependencies Issues

#### Previous Document

## 12. GLOSSARY

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Term	Definition