



ARTS POSLog V6.0

Volume 8: Return Line Items Technical Specification

February 10, 2014 – Last Call Working Draft

TABLE OF CONTENTS

1. Abstract.....	4
1.1 OVERVIEW	4
1.2 IN SCOPE.....	4
1.3 OUT OF SCOPE	4
2. Referenced Documents.....	5
3. ARTS Common Header	6
4. Use Case: Item return.....	7
4.1 SCENARIO: REFUND EXPIRY & GIFT RECEIPT REFUND EXPIRY (V6.0)	7
4.2 SCENARIO: RETURN TO STORE (V2.1)	8
4.3 SCENARIO: RETURN FOR DELIVERY BY CUSTOMER (V2.1)	12
4.4 SCENARIO: RETURN FOR PICKUP FROM CUSTOMER (V2.1)	15
4.5 SCENARIO: RETURN LINKED TRANSACTIONS (V2.2).....	18
5. Use Case: Commissioned Sales/Returns	20
5.1 SCENARIO: NEWSPAPER WITH COMMISSION (V2.2).....	20
5.2 SCENARIO: RETURN WITH COMMISSIONS (V2.2).....	21
6. USE Case: Post Purchase Price Adjustment.....	23
6.1 SCENARIO: CUSTOMER GETS REFUND IN CASH AFTER RETURNING TO THE STORE (V2.1)	23
7. Document History.....	24
8. Version History	25
9. GLOSSARY	26

Table of Figures

Figure 1: ARTS Common Header Domain View.....	6
Figure 2: ARTS Common Header Representation.....	6

Table of ARTS XML Samples

4.1 Conformance XML Instance Document - Refund Expiry & Gift Receipt Refund Expiry	7
4.2a Conformance XML Instance Document - Return to Store	8
4.2b Alternative Conformance XML Instance Document - Return to Store	9
4.2c Alternative Conformance XML Instance Document - Return to Store.....	10
4.2d Alternative Conformance XML Instance Document - Return to Store	11
4.3a Conformance XML Instance Document - Return for Delivery by Customer.....	12
4.3b Alternative Conformance XML Instance Document - Return for Delivery by Customer.....	14
4.4b Alternative Conformance XML Instance Document - Return for Pickup from Customer.....	17
4.5 Conformance XML Instance Document – Return Linked Transactions	18

5.1 Conformance XML Instance Document – Newspaper with Commission.....	20
5.2 Conformance XML Instance Document – Return with Commission	21
6.1 Conformance XML Instance Document - Post Purchase Price Adjust	23

1. Abstract

1.1 Overview

1.2 In Scope

1.3 Out of Scope

2. Referenced Documents

- **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

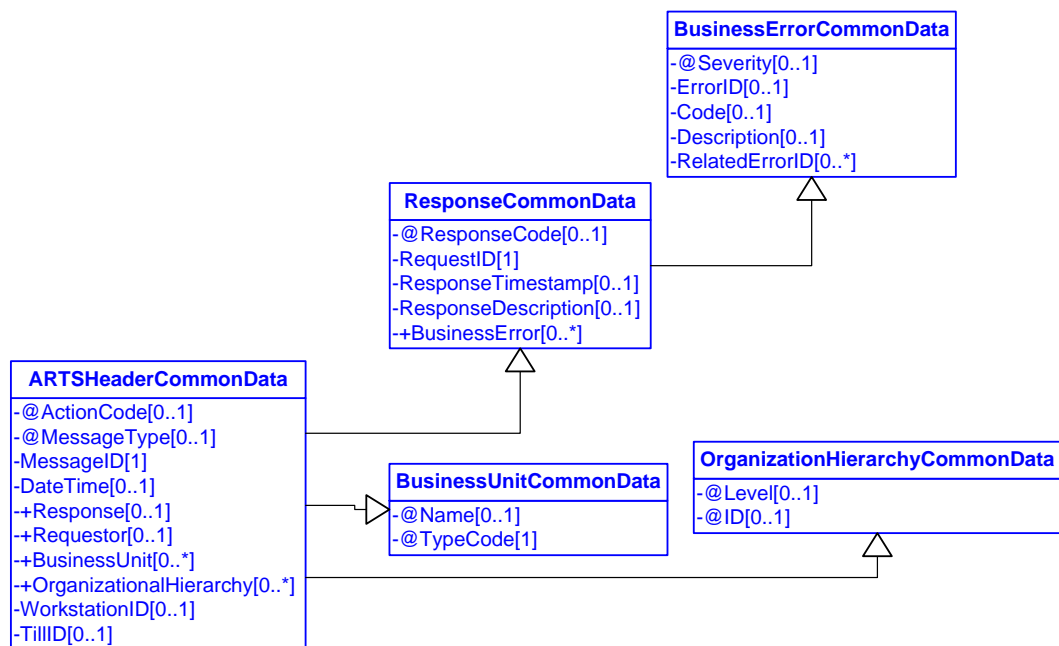


Figure 1: ARTS Common Header Domain View

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.

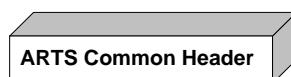


Figure 2: ARTS Common Header Representation

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: Item return

NOTE: THESE SCENARIOS DON'T SHOW TENDER REFUNDS. TENDER REFUNDS ARE SHOWN IN VOLUME 2 TENDERS.

Items are returned to a retailer for various reasons, and the return process may be conducted online, through a call center or in stores. The scenarios in this use case illustrate the fact that the resultant XML follows the pattern established by the sale of items via the various channels. All scenarios in this use case use the same set of actors.

4.1 Scenario: Refund Expiry & Gift Receipt Refund Expiry (V6.0)

Brief Description

The Refund Expiry Dates are printed on the Receipt (as business rules vary the expiry periods by time of year) and need to be recorded at RetailTransaction level. Lineltem/Sale and similar has a GiftReceiptFlag for when a GiftReceipt is issued so the separate GiftReceiptRefundExpiry date is not unreasonable.

The gift receipt date can be later than a normal return because the gift might be bought a month or two ahead of the event and this gives the receiver time to return the gift after they get a chance to open it.

Scenario Description

Suzy and Dan are getting married in two months on October 31. Their friends bought them a set of chinaware for their wedding gift on September 1. The normal refund/return is 30 days.

Data

- ReceiptDateTime is repeatable with a number of type codes.

4.1 Conformance XML Instance Document - Refund Expiry & Gift Receipt Refund Expiry

```
<?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" FixVersion="0" MinorVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID>HighStreet</UnitID>
    </BusinessUnit>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <OperatorID>John</OperatorID>
    <ReceiptDateTime TypeCode="RefundExpiry">2014-09-
17T09:30:47.0Z</ReceiptDateTime>
    <RetailTransaction>
      <Lineltem>
        <Sale ItemType="Stock">
          <!-- chinaware -->
        </Sale>
      </Lineltem>
      <POSIdentity>
```

```
        <POSItemID>01234567890123</POSItemID>
      </POSIdentity>
      <ExtendedAmount>234.89</ExtendedAmount>
    </Sale>
    <SequenceNumber>1</SequenceNumber>
  </LineItem>
</RetailTransaction>
</Transaction>
</POSLog>
```

4.2 Scenario: Return to Store (V2.1)

Brief Description

Customer returns an item to a store, and the number of those items available in inventory may or may not be incremented, depending on whether the returned item is put back into stock.

Data

- Transaction header data, including:
 - Identifiers for Store, Workstation, & Operator performing the transaction.
 - The date the transaction was performed
 - A workstation assigned sequence number identifying the transaction
- Item data, including:
 - A department identifier for the item being sold.
 - Which level in the department hierarchy is being used to identify the item.
 - The number of multiples of the item being sold.
 - The current unit-price of the item
- Return data, including:
 - Transaction link information identifying the original purchase that validates the return.
 - Approval information identifying the manager who approved the return.
 - Disposal information identifying how the returned item is to be treated.

4.2a Conformance XML Instance Document - Return to Store

```
<?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/
  ../POSLogV6.0.0.xsd"
  MajorVersion="6" FixVersion="0" MinorVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID>HighStreet</UnitID>
    </BusinessUnit>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <OperatorID>John</OperatorID>
    <RetailTransaction>
```



```
<LinItem>
  <Return ItemType="Stock">
    <POSIdentity>
      <POSItemID>01234567890123</POSItemID>
    </POSIdentity>
    <ExtendedAmount>4.89</ExtendedAmount>
    <Quantity>3</Quantity>
    <TransactionLink ReasonCode="Return">
      <BusinessUnit>HighStreet</BusinessUnit>
      <WorkstationID>POS5</WorkstationID>
      <BusinessDayDate>
        <Date>2001-08-12</Date>
      </BusinessDayDate>
      <SequenceNumber>42949672912</SequenceNumber>
    </TransactionLink>
    <Disposal Method="ReturnToStock"/>
  </Return>
  <SequenceNumber>1</SequenceNumber>
</LinItem>
</RetailTransaction>
</Transaction>
</POSLog>
```

4.2b Alternative Conformance XML Instance Document - Return to Store

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Return -->
<!-- Note: Addition of Disposal and OperatorBypassApproval elements -->
<!-- Inclusion of TransactionLink at transaction header to validate 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/
  ../POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID>HighStreet</UnitID>
    </BusinessUnit>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <OperatorID>John</OperatorID>
    <RetailTransaction>
      <LinItem>
        <Return ItemType="Stock">
          <POSIdentity>
            <POSItemID>01234567890123</POSItemID>
          </POSIdentity>
          <ExtendedAmount>4.89</ExtendedAmount>
          <Quantity>3</Quantity>
          <Disposal Method="ReturnToStock"/>
        </Return>
```

```
    <SequenceNumber>1</SequenceNumber>
  </LineItem>
  <TransactionLink ReasonCode="Return">
    <BusinessUnit>HighStreet</BusinessUnit>
    <WorkstationID>POS5</WorkstationID>
    <BusinessDayDate>
      <Date>2001-08-12</Date>
    </BusinessDayDate>
    <SequenceNumber>42949672912</SequenceNumber>
  </TransactionLink>
</RetailTransaction>
</Transaction>
</POSLog>
```

4.2c Alternative Conformance XML Instance Document - Return to Store

```
<?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/
  ..\POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID>HighStreet</UnitID>
    </BusinessUnit>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <OperatorID>John</OperatorID>
    <RetailTransaction>
      <LineItem>
        <Return ItemType="Stock">
          <POSIdentity>
            <POSItemID>01234567890123</POSItemID>
          </POSIdentity>
          <ExtendedAmount>4.89</ExtendedAmount>
          <Quantity>3</Quantity>
          <TransactionLink ReasonCode="Return">
            <BusinessUnit>HighStreet</BusinessUnit>
            <WorkstationID>POS5</WorkstationID>
            <BusinessDayDate>
              <Date>2001-08-12</Date>
            </BusinessDayDate>
            <SequenceNumber>42949672912</SequenceNumber>
          </TransactionLink>
          <Disposal Method="ReturnToStock"/>
          <OperatorBypassApproval>
            <SequenceNumber>1</SequenceNumber>
          </OperatorBypassApproval>
        </Return>
      </LineItem>
    </RetailTransaction>
  </Transaction>
</POSLog>
```

```
        <ApproverID>45763</ApproverID>
        <LineApprovalCode>AA</LineApprovalCode>
    </OperatorBypassApproval>
</Return>
    <SequenceNumber>1</SequenceNumber>
</LineItem>
</RetailTransaction>
</Transaction>
</POSLog>
```

4.2d Alternative Conformance XML Instance Document - Return to Store

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Return -->
<!-- Note: Addition of Disposal and OperatorBypassApproval elements -->
<!-- Inclusion of TransactionLink at transaction header to validate 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/
  ..\POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID>HighStreet</UnitID>
    </BusinessUnit>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <OperatorID>John</OperatorID>
    <RetailTransaction>
      <LineItem>
        <Return ItemType="Stock">
          <POSIdentity>
            <POSItemID>01234567890123</POSItemID>
          </POSIdentity>
          <ExtendedAmount>4.89</ExtendedAmount>
          <Quantity>3</Quantity>
          <Disposal Method="ReturnToStock"/>
          <OperatorBypassApproval>
            <SequenceNumber>1</SequenceNumber>
            <ApproverID>45763</ApproverID>
            <LineApprovalCode>AA</LineApprovalCode>
          </OperatorBypassApproval>
        </Return>
        <SequenceNumber>1</SequenceNumber>
      </LineItem>
      <TransactionLink ReasonCode="Return">
        <BusinessUnit>HighStreet</BusinessUnit>
        <WorkstationID>POS5</WorkstationID>
        <BusinessDayDate>
          <Date>2001-08-12</Date>
```

```
</BusinessDayDate>
<SequenceNumber>42949672912</SequenceNumber>
</TransactionLink>
</RetailTransaction>
</Transaction>
</POSLog>
```

4.3 Scenario: Return for Delivery by Customer (V2.1)

Brief Description

Customer wishes to return an item purchased online or through a call center. A call center operator enters the return into the system, and gives the customer the delivery address of a central returns facility. The number of those items available in inventory may not be incremented, until the actual item is delivered at the returns facility.

Data

- Transaction header data, including:
 - Identifiers for Store, Workstation, & Operator performing the transaction.
 - The date the transaction was performed
 - A workstation assigned sequence number identifying the transaction
- Item data, including:
 - A department identifier for the item being sold.
 - Which level in the department hierarchy is being used to identify the item.
 - The number of multiples of the item being sold.
 - The current unit-price of the item
- Return data, including:
 - Transaction link information identifying the original purchase that validates the return.
 - Approval information identifying the manager who approved the return.
 - Delivery information identifying the customer, and where the return is to be delivered.
 - Disposal information identifying how the returned item is to be treated.

4.3a Conformance XML Instance Document - Return for Delivery by Customer

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item ReturnForDelivery -->
<!-- Note: Addition of To, Disposal and OperatorBypassApproval elements -->
<!-- Inclusion of Customer information to identify who is to deliver item -->
<!-- Inclusion of Transaction Link 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/
  ..\POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID>HighStreet</UnitID>
    </BusinessUnit>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
```

```
<OperatorID>John</OperatorID>
<RetailTransaction>
  <LineItem>
    <ReturnForDelivery ItemType="Stock">
      <POSIdentity>
        <POSItemID>01234567890123</POSItemID>
      </POSIdentity>
      <ExtendedAmount>199.00</ExtendedAmount>
      <Quantity>1</Quantity>
      <TransactionLink ReasonCode="Return">
        <BusinessUnit>HighStreet</BusinessUnit>
        <WorkstationID>POS5</WorkstationID>
        <BusinessDayDate>
          <Date>2001-08-12</Date>
        </BusinessDayDate>
        <SequenceNumber>42949672912</SequenceNumber>
      </TransactionLink>
      <Disposal Method="ReturnToStock"/>
      <OperatorBypassApproval>
        <SequenceNumber>1</SequenceNumber>
        <ApproverID>45763</ApproverID>
        <LineApprovalCode>AA</LineApprovalCode>
      </OperatorBypassApproval>
      <To>Warehouse 6</To>
      <Reason>Faulty</Reason>
      <Delivery>
        <Name>
          <OfficialName>
            Stuart McGrigor</OfficialName>
          </Name>
          <Address>
            <AddressLine>325 7th St. NW.</AddressLine>
            <AddressLine>Suite 1100</AddressLine>
            <City>Washington</City>
            <Territory>D.C.</Territory>
          </Address>
          <TelephoneNumber>
            <AreaCode>202</AreaCode>
            <LocalNumber>555 5957</LocalNumber>
            <ITUCountryCode>+1</ITUCountryCode>
          </TelephoneNumber>
        </Delivery>
      </ReturnForDelivery>
      <SequenceNumber>1</SequenceNumber>
    </LineItem>
  </RetailTransaction>
</Transaction>
</POSLog>
```

4.3b Alternative Conformance XML Instance Document - Return for Delivery by Customer

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item ReturnForDelivery -->
<!-- Note: Addition of To, Disposal and OperatorBypassApproval elements -->
<!-- Inclusion of Customer information to identify who is to deliver item -->
<!-- Inclusion of Transaction Link 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/
  ..\POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID>HighStreet</UnitID>
    </BusinessUnit>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <OperatorID>John</OperatorID>
    <RetailTransaction>
      <LineItem>
        <ReturnForDelivery ItemType="Stock">
          <POSIdentity>
            <POSItemID>01234567890123</POSItemID>
          </POSIdentity>
          <ExtendedAmount>199.00</ExtendedAmount>
          <Quantity>1</Quantity>
          <Disposal Method="ReturnToStock"/>
          <OperatorBypassApproval>
            <SequenceNumber>1</SequenceNumber>
            <ApproverID>45763</ApproverID>
            <LineApprovalCode>AA</LineApprovalCode>
          </OperatorBypassApproval>
          <To>Warehouse 6</To>
          <Delivery>
            <Name>
              <OfficialName>Stuart McGrigor</OfficialName>
            </Name>
            <Address>
              <AddressLine>325 7th St. NW.</AddressLine>
              <AddressLine>Suite 1100</AddressLine>
              <City>Washington</City>
              <Territory>D.C.</Territory>
            </Address>
            <TelephoneNumber>
              <AreaCode>202</AreaCode>
              <LocalNumber>555 5957</LocalNumber>
              <ITUCountryCode>+1</ITUCountryCode>
            </TelephoneNumber>
          </Delivery>
        </ReturnForDelivery>
      </LineItem>
    </RetailTransaction>
  </Transaction>
</POSLog>
```

```
</ReturnForDelivery>
<SequenceNumber>1</SequenceNumber>
</LineItem>
<TransactionLink ReasonCode="Return">
  <BusinessUnit>HighStreet</BusinessUnit>
  <WorkstationID>POS5</WorkstationID>
  <BusinessDayDate>
    <Date>2001-08-12</Date>
  </BusinessDayDate>
  <SequenceNumber>42949672912</SequenceNumber>
</TransactionLink>
</RetailTransaction>
</Transaction>
</POSLog>
```

4.4 Scenario: Return for Pickup from Customer (V2.1)

Brief Description

Customer wishes to return a large item that can't be brought to a store by the customer. The store cashier enters the return into the system including a pickup address. The number of items available in inventory may not be incremented until the actual item has been received by the returns facility.

Data

- Transaction header data, including:
 - Identifiers for Store, Workstation, & Operator performing the transaction.
 - The date the transaction was performed
 - A workstation assigned sequence number identifying the transaction
- Item data, including:
 - A department identifier for the item being sold.
 - Which level in the department hierarchy is being used to identify the item.
 - The number of multiples of the item being sold.
 - The current unit-price of the item
- Return data, including:
 - Transaction link information identifying the original purchase that validates the return.
 - Approval information identifying the manager who approved the return.
 - Pickup information identifying the customer, where the return is to be picked up from and delivered to.
 - Disposal information identifying how the returned item is to be treated.

4.4a Conformance XML Instance Document - Return for Pickup from Customer

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item ReturnForPickup -->
<!-- Note: Addition of To, Disposal and OperatorBypassApproval elements -->
<!--      Inclusion of Pickup information to identify where the item is to be picked up from -->
<!--      Inclusion of Transaction Link 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/
..\POSLogv6.0.0.xsd"
MajorVersion="6" MinorVersion="0" FixVersion="0">
<Transaction>
  <BusinessUnit>
    <UnitID>HighStreet</UnitID>
  </BusinessUnit>
  <WorkstationID>POS5</WorkstationID>
  <SequenceNumber>4294967295</SequenceNumber>
  <OperatorID>John</OperatorID>
  <RetailTransaction>
    <LineItem>
      <ReturnForPickup ItemType="Stock">
        <POSIdentity>
          <POSItemID>01234567890123</POSItemID>
        </POSIdentity>
        <ExtendedAmount>199.00</ExtendedAmount>
        <Quantity>1</Quantity>
        <TransactionLink ReasonCode="Return">
          <BusinessUnit>HighStreet</BusinessUnit>
          <WorkstationID>POS5</WorkstationID>
          <BusinessDayDate>
            <Date>2001-08-12</Date>
          </BusinessDayDate>
          <SequenceNumber>42949672912</SequenceNumber>
        </TransactionLink>
        <Disposal Method="ReturnToStock"/>
        <OperatorBypassApproval>
          <SequenceNumber>1</SequenceNumber>
          <ApproverID>45763</ApproverID>
          <LineApprovalCode>AA</LineApprovalCode>
        </OperatorBypassApproval>
        <Pickup>
          <Name>
            <OfficialName>Stuart McGrigor</OfficialName>
          </Name>
          <Address>
            <AddressLine>325 7th St. NW.</AddressLine>
            <AddressLine>Suite 1100</AddressLine>
            <City>Washington</City>
            <Territory>D.C.</Territory>
          </Address>
          <TelephoneNumber>
            <AreaCode>6</AreaCode>
            <LocalNumber>555-5642</LocalNumber>
            <ITUCountryCode>+64</ITUCountryCode>
          </TelephoneNumber>
        </Pickup>
      </ReturnForPickup>
    </LineItem>
  </RetailTransaction>
</Transaction>
<SequenceNumber>1</SequenceNumber>
```



```
    </LineItem>
  </RetailTransaction>
</Transaction>
</POSLog>
```

4.4b Alternative Conformance XML Instance Document - Return for Pickup from Customer

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Item Return -->
<!-- Note: Addition of To, Disposal and OperatorBypassApproval elements
-->
<!--      Inclusion of Pickup information to identify where the item is to be picked up from
-->
<!--      (Pickup info is at transaction header rather than line item level)      -->
<!--      Inclusion of Transaction Link at transaction header 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/
../POSLogV6.0.0.xsd"
  MajorVersion="6" MinorVersion="0" FixVersion="0">
  <Transaction>
    <BusinessUnit>
      <UnitID>HighStreet</UnitID>
    </BusinessUnit>
    <WorkstationID>POS5</WorkstationID>
    <SequenceNumber>4294967295</SequenceNumber>
    <OperatorID>John</OperatorID>
    <RetailTransaction>
      <LineItem>
        <ReturnForPickup ItemType="Stock">
          <POSIdentity>
            <POSItemID>01234567890123</POSItemID>
          </POSIdentity>
          <Description>Small TV</Description>
          <ActualSalesUnitPrice>199.00</ActualSalesUnitPrice>
          <ExtendedAmount>199.00</ExtendedAmount>
          <Quantity>1</Quantity>
          <Disposal Method="ReturnToStock"/>
          <OperatorBypassApproval>
            <SequenceNumber>1</SequenceNumber>
            <ApproverID>45763</ApproverID>
            <LineApprovalCode>AA</LineApprovalCode>
          </OperatorBypassApproval>
          <Pickup>
            <Name>
              <OfficialName>Stuart McGrigor</OfficialName>
            </Name>
            <Address>
              <AddressLine>325 7th St. NW.</AddressLine>
              <AddressLine>Suite 1100</AddressLine>
```

```
        <City>Washington</City>
        <Territory>D.C.</Territory>
    </Address>
    <TelephoneNumber>
        <AreaCode>6</AreaCode>
        <LocalNumber>555-5642</LocalNumber>
        <ITUCountryCode>+64</ITUCountryCode>
    </TelephoneNumber>
</Pickup>
</ReturnForPickup>
<SequenceNumber>1</SequenceNumber>
</LineItem>
<TransactionLink ReasonCode="Return">
    <BusinessUnit>HighStreet</BusinessUnit>
    <WorkstationID>POS5</WorkstationID>
    <BusinessDayDate>
        <Date>2001-08-12</Date>
    </BusinessDayDate>
    <SequenceNumber>42949672912</SequenceNumber>
</TransactionLink>
</RetailTransaction>
</Transaction>
</POSLog>
```

4.5 Scenario: Return Linked Transactions (V2.2)

Brief Description

Customer returns items from two different transactions – how to link the one return receipt back to both of the original transactions?

Data

- Two items each with a link to a different original transaction

Pre-Conditions

Post-Conditions

4.5 Conformance XML Instance Document – Return Linked Transactions

```
<?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>1</SequenceNumber>
    <OperatorID>John</OperatorID>
    <RetailTransaction>
      <LineItem>
```

```
<Return ItemType="Stock">
  <POSIdentity>
    <POSItemID>01234567890123</POSItemID>
  </POSIdentity>
  <ExtendedAmount>199.00</ExtendedAmount>
  <TransactionLink ReasonCode="Return">
    <BusinessUnit>HighStreet</BusinessUnit>
    <WorkstationID>34</WorkstationID>
    <!-- Business day for original transaction -->
    <BusinessDayDate>
      <Date>2001-08-12</Date>
    </BusinessDayDate>
    <!-- Transaction number of original transaction -->
    <SequenceNumber>100</SequenceNumber>
  </TransactionLink>
  <Disposal Method="ReturnToStock"/>
</Return>
<SequenceNumber>1</SequenceNumber>
</LineItem>
<LineItem>
  <Return ItemType="Stock">
    <POSIdentity>
      <POSItemID>5234</POSItemID>
    </POSIdentity>
    <ExtendedAmount>20.00</ExtendedAmount>
    <TransactionLink ReasonCode="Return">
      <BusinessUnit>East 5th</BusinessUnit>
      <WorkstationID>100</WorkstationID>
      <!-- Business day for original transaction -->
      <BusinessDayDate>
        <Date>2002-02-24</Date>
      </BusinessDayDate>
      <!-- Transaction number of original transaction -->
      <SequenceNumber>13456</SequenceNumber>
    </TransactionLink>
    <Disposal Method="ReturnToStock"/>
  </Return>
  <SequenceNumber>2</SequenceNumber>
</LineItem>
<LineItem>
  <Tender TypeCode="Refund">
    <Amount>219.00</Amount>
  </Tender>
  <SequenceNumber>3</SequenceNumber>
</LineItem>
</RetailTransaction>
</Transaction>
</POSLog>
```

5. Use Case: Commissioned Sales>Returns

5.1 Scenario: Newspaper With Commission (V2.2)

Brief Description

Fred purchases a newspaper and the manager gets a commission for the sale.

Data

- Newspaper
- The amount of the commission
- The worker who gets the commission

5.1 Conformance XML Instance Document – Newspaper with Commission

```
<?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>
    <OperatorID>John</OperatorID>
    <RetailTransaction>
      <LineItem>
        <Sale ItemType="Stock">
          <POSIdentity>
            <POSItemID>01234567890123</POSItemID>
          </POSIdentity>
          <ExtendedAmount>1.00</ExtendedAmount>
          <Associate CommissionGivenFlag="true">
            <AssociateID>1234</AssociateID>
            <Commission Action="Add">
              <Amount>.10</Amount>
            </Commission>
          </Associate>
        </Sale>
        <SequenceNumber>1</SequenceNumber>
      </LineItem>
    </RetailTransaction>
  </Transaction>
</POSLog>
```

5.2 Scenario: Return with Commissions (V2.2)

Brief Description

The Audit system that receives POSLog does not maintain details of previous transactions. Retailer is consequently required to include the AssociateID of the original transaction when making a return, so that commission can be deducted for the return.

Employee A takes an item in as a return. Employee B received the commission for the original sale. The POSLog needs to report Employee A handled the return and Employee B gets a deduction for the commission. This moves functionality more traditionally handled in the back office to the POS, and with a little change the current POSLog will handle it.

Data

Employee who took the return

Original employee who got the commission

Flag to indicate this employee got the commission

5.2 Conformance XML Instance Document – Return with Commission

```
<?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>
    <OperatorID>John</OperatorID>
    <RetailTransaction>
      <LineItem>
        <Return ItemType="Stock">
          <POSIdentity>
            <POSItemID>01234567890123</POSItemID>
          </POSIdentity>
          <ExtendedAmount>1.00</ExtendedAmount>
          <Associate>
            <AssociateID>qw23wer</AssociateID>
            <Commission Action="Subtract">
              <Amount>.10</Amount>
            </Commission>
          </Associate>
        </Return>
        <SequenceNumber>1</SequenceNumber>
      </LineItem>
      <LineItem>
        <Tender TypeCode="Refund">
          <Amount>1.00</Amount>
        </Tender>
      </LineItem>
    </RetailTransaction>
  </Transaction>
</POSLog>
```

```
</Tender>  
  <SequenceNumber>2</SequenceNumber>  
</LineItem>  
</RetailTransaction>  
</Transaction>  
</POSLog>
```

6. USE Case: Post Purchase Price Adjustment

6.1 Scenario: Customer Gets Refund in Cash after Returning to the Store (V2.1)

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 receives a cash refund for the difference.

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

6.1 Conformance XML Instance Document - Post Purchase Price Adjust

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- UseCase: Tender refund for customer overcharge -->
<!-- Note: absence of Refund line item -->
<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>
    <OperatorID>John</OperatorID>
    <RetailTransaction>
      <LineItem>
        <Tender TenderType="Cash" TypeCode="Refund">
          <Amount>4.89</Amount>
          <ReasonCode>Overcharged Customer</ReasonCode>
        </Tender>
        <SequenceNumber>1</SequenceNumber>
      </LineItem>
    </RetailTransaction>
  </Transaction>
</POSLog>
```

7. Document History

8. Version History

Version 1.0

Overview

New Features

Sections	Description of Change
	-

Minor fixes

Deprecation

Sections	Description of Change
	-

Compatibility/Dependencies Issues

Previous Document

9. GLOSSARY

Term	Definition