

## Schema Design – Reports

**GDAR Design**  
December 17, 2003



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## Revision History

Date	Version	Description	Author
October 3, 2003	0.1	Initial Creation	Michael Benovich, Sapien Corporation
October 4, 2003	0.2	Internal Review revisions	Vu Pham-Tran, Sapien Corporation
October 5,	0.3	Business Descriptions added	Vu Pham-Tran, Sapien Corporation
October 7,	0.4	Schema Changes applied and examples updated to appendix	Vu Pham-Tran, Sapien Corporation

# 1 Schema Specifications – Monthly Account Activity

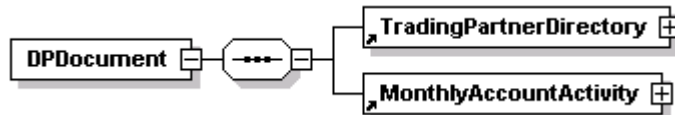
The following is a list of element and attribute specifications for the XML schema. It will contain formatting constraints, type values, layout and any additional information such as the applicable business uses for the fields.

## 1.1 DPDocument

### Description

This is the root element of the transaction request and contains attributes that describe the XML document and the type of transaction that the XML document represents.

### Layout



### Element Specifications

Usage	Required – Exactly Once
Parent Elements	<ul style="list-style-type: none"><li>None</li></ul>
Child Elements	<ul style="list-style-type: none"><li>TradingPartnerDirectory</li><li>MonthlyAccountActivity</li></ul>
Type	xs:complexType
Facets	N/A

**Source Design**

```
<xs:element name="DPDocument">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="TradingPartnerDirectory"/>
      <xs:element ref="MonthlyAccountActivity"/>
    </xs:sequence>
    <xs:attribute name="Version" use="required">
      <xs:simpleType>
        <xs:restriction base="xs:decimal">
          <xs:minInclusive value="0.0"/>
          <xs:maxInclusive value="99999999.99"/>
          <xs:fractionDigits value="3"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="DocumentDefinitionName" use="required">
      <xs:simpleType>
        <xs:restriction base="xs:NMTOKEN">
          <xs:enumeration value="MonthlyAccountActivity"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="DistributorDocumentReference" type="xs:string" use="optional"/>
    <xs:attribute name="CreationDate" type="xs:date" use="required"/>
  </xs:complexType>
</xs:element>
```

**Attribute Specifications**

Name	Type	Usage	Facets	Description
Version	xs:decimal	Required	N/A	The version of the XML schema that corresponds to this document. Currently, the version of this schema is 1.2
DocumentDefinitionName	xs:NMTOKEN	Required	Enum	The value contained for this attribute must be equivalent to the body element of the schema. For example, this schema requires that the value be:  <i>MonthlyAccountActivity</i>
DistributorDocumentReference	xs:string	Optional	N/A	This is the distributor's document tracking identifier of the report document. It will only be populated by Union Gas.
CreationDate	xs:date	Required	YYYY-	This is the creation date of

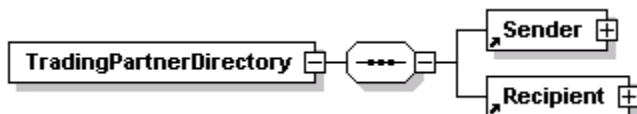
			MM-DD	the document.
--	--	--	-------	---------------

### 1.1.1 TradingPartnerDirectory

#### Description

This is the header information containing the information on the parties involved in the transmission of the document.

#### Layout



#### Element Specifications

<b>Usage</b>	Required – Exactly Once
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>DPDocument</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>Sender</li> <li>Recipient</li> </ul>
<b>Type</b>	xs:complexType
<b>Facets</b>	N/A
<b>Source Design</b>	<pre> &lt;xs:element name="TradingPartnerDirectory"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="Sender"/&gt;       &lt;xs:element ref="Recipient"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

#### Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.1.1 Sender

#### Description

This element contains information of the sender of the document. For this schema, the information belongs to the Distributor.

#### Layout





## Element Specifications

<b>Usage</b>	Required – Exactly Once
<b>Parent Elements</b>	<ul style="list-style-type: none"><li>TradingPartnerDirectory</li></ul>
<b>Child Elements</b>	<ul style="list-style-type: none"><li>TradingPartner</li></ul>
<b>Type</b>	xs:complexType
<b>Facets</b>	
<b>Source Design</b>	<pre>&lt;xs:element name="Sender"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="TradingPartner"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

## Attribute Specifications

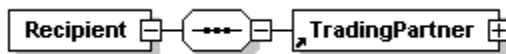
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

### 1.1.1.2 Recipient

#### Description

This element contains information of the recipient of the document. For this schema, the information belongs to the Vendor.

#### Layout



## Element Specifications

<b>Usage</b>	Required – Exactly Once
<b>Parent Elements</b>	<ul style="list-style-type: none"><li>TradingPartnerDirectory</li></ul>
<b>Child Elements</b>	<ul style="list-style-type: none"><li>TradingPartner</li></ul>
<b>Type</b>	xs:complexType
<b>Facets</b>	
<b>Source Design</b>	<pre>&lt;xs:element name="Recipient"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="TradingPartner"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

## Attribute Specifications

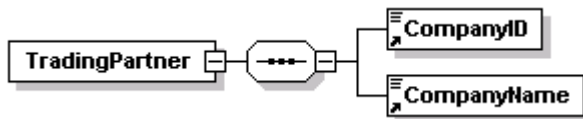
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.1.2.1 TradingPartner

##### Description

This element contains information of the sender or recipient of the document. For this schema, the sender information belongs to the Gas Distributor and the recipient information belongs to the Vendor.

##### Layout



##### Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>▪ Recipient</li> <li>▪ Sender</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>▪ CompanyID</li> <li>▪ CompanyName</li> </ul>
<b>Type</b>	xs:complexType
<b>Facets</b>	
<b>Source Design</b>	<pre> &lt;xs:element name="TradingPartner"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="CompanyID"/&gt;       &lt;xs:element ref="CompanyName"/&gt;     &lt;/xs:sequence&gt;     &lt;xs:attribute name="ParticipantType" use="required"&gt;       &lt;xs:simpleType&gt;         &lt;xs:restriction base="xs:NMTOKEN"&gt;           &lt;xs:enumeration value="Distributor"/&gt;           &lt;xs:enumeration value="Retailer"/&gt;         &lt;/xs:restriction&gt;       &lt;/xs:simpleType&gt;     &lt;/xs:attribute&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

##### Attribute Specifications

Name	Type	Usage	Facets	Description
ParticipantType	xs:NMTOKEN	Required	Enum	The role that the particular party plays in the submission.

				For this schema, the Sender's ParticipantType = "Distributor" and the Recipient's ParticipantType = "Retailer".
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#### 1.1.1.2.1.1 CompanyID

##### Description

This element contains the unique identifier of the company identified by the TradingPartner. If the TradingPartner is the sender of the document for this particular schema type, the value listed is the Distributor's identifier for the Vendor.

##### Layout



##### Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>TradingPartner</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:string
<b>Facets</b>	
<b>Source Design</b>	<pre>&lt;xs:element name="CompanyID"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"/&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt;</pre>

##### Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.1.2.1.2 CompanyName

##### Description

This element contains the company's name, either the Vendor if it is the Recipient for this document type or the Distributor if is the Sender for this document type.

##### Layout



##### Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>TradingPartner</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:string
<b>Facets</b>	<ul style="list-style-type: none"> <li>minLength = 1</li> <li>maxLength = 300</li> </ul>
<b>Source Design</b>	<pre> &lt;xs:element name="CompanyName"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="1"/&gt;       &lt;xs:maxLength value="300"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

### Attribute Specifications

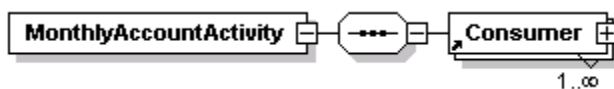
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

### 1.1.2 MonthlyAccountActivity

#### Description

This is the body element of the report. It contains the transaction specific information record(s) that will appear inside the body.

#### Layout



### Element Specifications

<b>Usage</b>	Required – Exactly Once
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>DPDocument</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>Consumer</li> </ul>
<b>Type</b>	xs:complexType
<b>Facets</b>	N/A
<b>Source Design</b>	<pre> &lt;xs:element name="MonthlyAccountActivity"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="Consumer" maxOccurs="unbounded"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

## Attribute Specifications

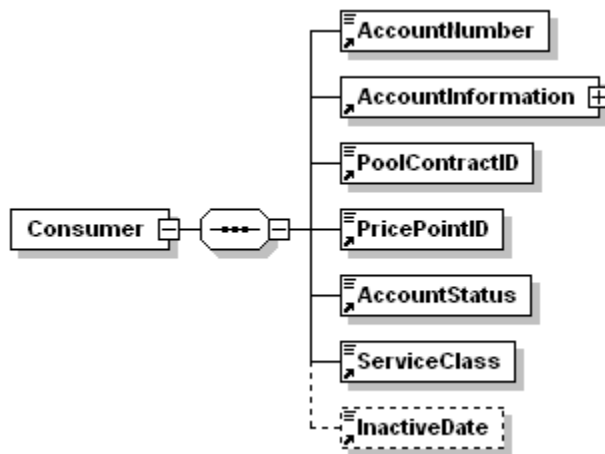
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

### 1.1.2.1 Consumer

#### Description

This is the container element for pertaining to each consumer account belonging to the Vendor.

#### Layout



#### Element Specifications

Usage	Required - Unbounded
Parent Elements	<ul style="list-style-type: none"><li>MonthlyAccountActivity</li></ul>
Child Elements	<ul style="list-style-type: none"><li>AccountNumber</li><li>AccountInformation</li><li>AccountStatus</li><li>ServiceClass</li><li>InactiveDate</li></ul>
Type	xs:complexType
Facets	N/A

<b>Source Design</b>	<pre> &lt;xs:element name="Consumer"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="AccountNumber"/&gt;       &lt;xs:element ref="AccountInformation"/&gt;       &lt;xs:element ref="PoolContractID"/&gt;       &lt;xs:element ref="PricePointID"/&gt;       &lt;xs:element ref="AccountStatus"/&gt;       &lt;xs:element ref="ServiceClass"/&gt;       &lt;xs:element ref="InactiveDate" minOccurs="0"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>
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## Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

### 1.1.2.1.1 AccountNumber

#### Description

This is the unique identifier of the account.

#### Layout



## Element Specifications

<b>Usage</b>	
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>Consumer</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:string
<b>Facets</b>	<ul style="list-style-type: none"> <li>minLength = 6</li> <li>maxLength = 14</li> </ul>
<b>Source Design</b>	<pre> &lt;xs:element name="AccountNumber"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="6"/&gt;       &lt;xs:maxLength value="14"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

## Attribute Specifications

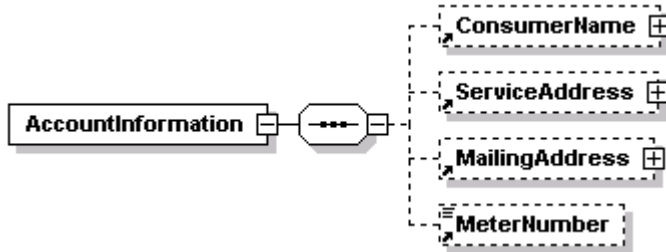
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.2 AccountInformation

##### Description

This element is a container for consumer specific information such as the service and mailing addresses.

##### Layout



##### Element Specifications

Usage	
Parent Elements	<ul style="list-style-type: none"><li>Consumer</li></ul>
Child Elements	<ul style="list-style-type: none"><li>ConsumerName</li><li>ServiceAddress</li><li>MailingAddress</li><li>MeterNumber</li></ul>
Type	xs:complexType
Facets	
Source Design	<pre>&lt;xs:element name="AccountInformation"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="ConsumerName" minOccurs="0"/&gt;       &lt;xs:element ref="ServiceAddress" minOccurs="0"/&gt;       &lt;xs:element ref="MailingAddress" minOccurs="0"/&gt;       &lt;xs:element ref="MeterNumber" minOccurs="0"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

##### Attribute Specifications

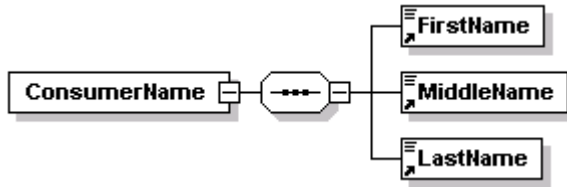
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.2.1 ConsumerName

##### Description

This is the container element for the consumer name information.

## Layout



## Element Specifications

Usage	Optional – Once Maximum
Parent Elements	<ul style="list-style-type: none"><li>AccountInformation</li></ul>
Child Elements	<ul style="list-style-type: none"><li>FirstName</li><li>MiddleName</li><li>LastName</li></ul>
Type	xs:complexType
Facets	
Source Design	<pre>&lt;xs:element name="ConsumerName"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="FirstName"/&gt;       &lt;xs:element ref="MiddleName"/&gt;       &lt;xs:element ref="LastName"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

## Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

### 1.1.2.1.2.1.1 *FirstName*

#### Description

This is the first name of the consumer as it appears in the Distributor's repository. It is left blank if the consumer is a company.

## Layout



## Element Specifications

Usage	Required – Exactly Once (per parent element)
Parent Elements	<ul style="list-style-type: none"><li>ConsumerName</li></ul>
Child Elements	<ul style="list-style-type: none"><li>None</li></ul>



<b>Type</b>	xs:string
<b>Facets</b>	<ul style="list-style-type: none"> <li>minLength = 0</li> <li>maxLength = 100</li> </ul>
<b>Source Design</b>	<pre> &lt;xs:element name="FirstName"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="0"/&gt;       &lt;xs:maxLength value="100"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

### Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.2.1.2 MiddleName

##### Description

This is the middle name of the consumer as it appears in the Distributor's repository. It is left blank if the consumer is a company.

##### Layout



##### Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>ConsumerName</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:string
<b>Facets</b>	<ul style="list-style-type: none"> <li>minLength = 0</li> <li>maxLength = 100</li> </ul>
<b>Source Design</b>	<pre> &lt;xs:element name="MiddleName"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="0"/&gt;       &lt;xs:maxLength value="100"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

### Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.2.1.3 *LastName*

##### Description

This is the last name of the consumer as it appears in the Distributor's repository. When the consumer is a company, the company name is listed here.

##### Layout



##### Element Specifications

Usage	Required – Exactly Once (per parent element)
Parent Elements	<ul style="list-style-type: none"><li>ConsumerName</li></ul>
Child Elements	<ul style="list-style-type: none"><li>None</li></ul>
Type	xs:string
Facets	<ul style="list-style-type: none"><li>minLength = 0</li><li>maxLength = 100</li></ul>
Source Design	<pre>&lt;xs:element name="LastName"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="0"/&gt;       &lt;xs:maxLength value="100"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt;</pre>

##### Attribute Specifications

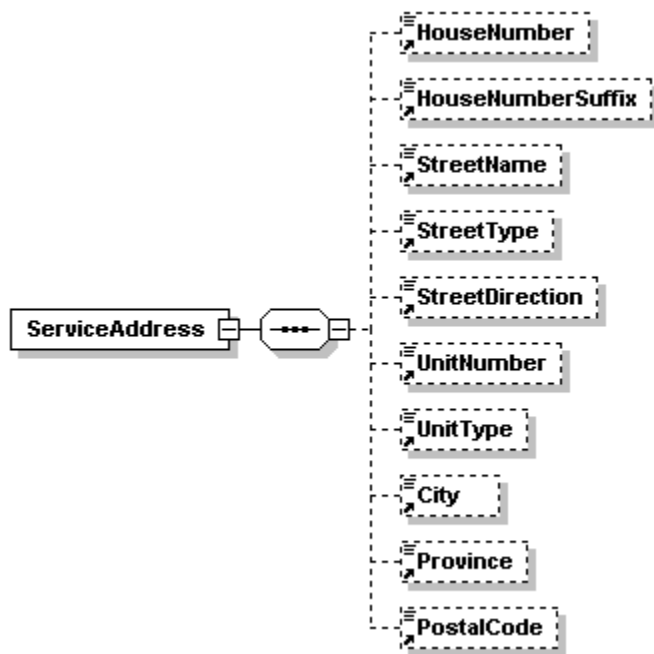
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.2.2 *ServiceAddress*

##### Description

This is the container element for the consumer's address of service (premises address).

##### Layout



### Element Specifications

<b>Usage</b>	Optional – Once Maximum (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>▪ AccountInformation</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>▪ HouseNumber</li> <li>▪ HouseNumberSuffix</li> <li>▪ StreetName</li> <li>▪ StreetType</li> <li>▪ StreetDirection</li> <li>▪ UnitNumber</li> <li>▪ UnitType</li> <li>▪ City</li> <li>▪ Province</li> <li>▪ PostalCode</li> </ul>
<b>Type</b>	xs:complexType
<b>Facets</b>	N/A

**Source Design**

```

<xs:element name="ServiceAddress">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="HouseNumber" minOccurs="0"/>
      <xs:element ref="HouseNumberSuffix" minOccurs="0"/>
      <xs:element ref="StreetName" minOccurs="0"/>
      <xs:element ref="StreetType" minOccurs="0"/>
      <xs:element ref="StreetDirection" minOccurs="0"/>
      <xs:element ref="UnitNumber" minOccurs="0"/>
      <xs:element ref="UnitType" minOccurs="0"/>
      <xs:element ref="City" minOccurs="0"/>
      <xs:element ref="Province" minOccurs="0"/>
      <xs:element ref="PostalCode" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

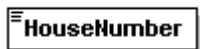
```

**Attribute Specifications**

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

**1.1.2.1.2.2.1 HouseNumber****Description**

Lists the consumer's house number of the service address. This conforms to the Canada Post Address standards (referred to as civic number).

**Layout****Element Specifications**

<b>Usage</b>	Optional – Once Maximum (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>ServiceAddress</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:string
<b>Facets</b>	Min Length = 0; Max Length = 10
<b>Source Design</b>	<pre> &lt;xs:element name="HouseNumber"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="0"/&gt;       &lt;xs:maxLength value="10"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

## Attribute Specifications

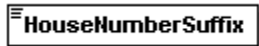
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

### 1.1.2.1.2.2.2 HouseNumberSuffix

#### Description

Lists the consumer's house number suffix of the service address. This conforms to the Canada Post Address standards.

#### Layout

HouseNumberSuffix

## Element Specifications

Usage	Optional – Once Maximum (per parent element)
Parent Elements	<ul style="list-style-type: none"><li>ServiceAddress</li></ul>
Child Elements	<ul style="list-style-type: none"><li>None</li></ul>
Type	xs:string
Facets	Min Length = 0; Max Length = 10
Source Design	<pre>&lt;xs:element name="HouseNumberSuffix"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="0"/&gt;       &lt;xs:maxLength value="10"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt;</pre>

## Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

### 1.1.2.1.2.2.3 StreetName

#### Description

Lists the consumer's street name of the service address. This conforms to the Canada Post Address standards.

#### Layout

StreetName

## Element Specifications

<b>Usage</b>	Optional – Once Maximum (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"><li>ServiceAddress</li></ul>
<b>Child Elements</b>	<ul style="list-style-type: none"><li>None</li></ul>
<b>Type</b>	xs:string
<b>Facets</b>	Min Length = 0; Max Length = 55
<b>Source Design</b>	<pre>&lt;xs:element name="StreetName"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="0"/&gt;       &lt;xs:maxLength value="55"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt;</pre>

## Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

### 1.1.2.1.2.2.4 StreetType

#### Description

Lists the consumer's street type of the service address. This conforms to the Canada Post Address standards.

#### Layout



## Element Specifications

<b>Usage</b>	Optional – Once Maximum (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"><li>ServiceAddress</li></ul>
<b>Child Elements</b>	<ul style="list-style-type: none"><li>None</li></ul>
<b>Type</b>	xs:string
<b>Facets</b>	Min Length = 0; Max Length = 10

**Source Design**

```
<xs:element name="StreetType">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="0"/>
      <xs:maxLength value="10"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

**Attribute Specifications**

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

**1.1.2.1.2.2.5 StreetDirection****Description**

Lists the consumer's street direction of the service address. This conforms to the Canada Post Address standards.

**Layout****Element Specifications**

<b>Usage</b>	Optional – Once Maximum (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"><li>ServiceAddress</li></ul>
<b>Child Elements</b>	<ul style="list-style-type: none"><li>None</li></ul>
<b>Type</b>	xs:NMTOKEN
<b>Facets</b>	Enumeration <ul style="list-style-type: none"><li>N</li><li>S</li><li>W</li><li>E</li><li>NW</li><li>SW</li><li>SE</li></ul>

<b>Source Design</b>	<pre> &lt;xs:element name="StreetDirection"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:NMTOKEN"&gt;       &lt;xs:enumeration value="N"/&gt;       &lt;xs:enumeration value="S"/&gt;       &lt;xs:enumeration value="W"/&gt;       &lt;xs:enumeration value="E"/&gt;       &lt;xs:enumeration value="NW"/&gt;       &lt;xs:enumeration value="NE"/&gt;       &lt;xs:enumeration value="SW"/&gt;       &lt;xs:enumeration value="SE"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>
----------------------	--

## Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

### 1.1.2.1.2.2.6 UnitNumber

## Description

Lists the consumer's unit (apartment) number of the service address. This conforms to the Canada Post Address standards.

## Layout



## Element Specifications

<b>Usage</b>	Optional – Once Maximum (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>ServiceAddress</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:string
<b>Facets</b>	Min Length = 0; Max Length = 40
<b>Source Design</b>	<pre> &lt;xs:element name="UnitNumber"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="0"/&gt;       &lt;xs:maxLength value="40"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

## Attribute Specifications



Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.2.2.7 UnitType

##### Description

Lists the consumer's unit type (such as APT, SUITE) of the service address. This conforms to the Canada Post Address standards.

##### Layout



##### Element Specifications

Usage	Optional – Once Maximum (per parent element)
Parent Elements	<ul style="list-style-type: none"> <li>ServiceAddress</li> </ul>
Child Elements	<ul style="list-style-type: none"> <li>None</li> </ul>
Type	xs:string
Facets	Min Length = 0; Max Length = 10
Source Design	<pre>&lt;xs:element name="UnitType"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="0"/&gt;       &lt;xs:maxLength value="10"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt;</pre>

##### Attribute Specifications

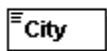
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.2.2.8 City

##### Description

Lists the consumer's city of the service address.

##### Layout



##### Element Specifications

<b>Usage</b>	Optional – Once Maximum (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>ServiceAddress</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:string
<b>Facets</b>	Min Length = 0; Max Length = 20
<b>Source Design</b>	<pre> &lt;xs:element name="City"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="0"/&gt;       &lt;xs:maxLength value="20"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

### Attribute Specifications

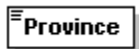
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.2.2.9 Province

### Description

Lists the consumer's province of the service address. For Enbridge Gas Distribution and Union Gas Limited, the only value that will be used is "ON".

### Layout



### Element Specifications

<b>Usage</b>	Optional – Once Maximum (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>ServiceAddress</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:NMTOKEN

<b>Facets</b>	Enumeration <ul style="list-style-type: none"> <li>▪ AB</li> <li>▪ BC</li> <li>▪ MB</li> <li>▪ NB</li> <li>▪ NL</li> <li>▪ NS</li> <li>▪ ON</li> <li>▪ PE</li> <li>▪ QC</li> <li>▪ SK</li> <li>▪ YT</li> </ul>
<b>Source Design</b>	<pre> &lt;xs:element name="Province"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:NMTOKEN"&gt;       &lt;xs:enumeration value="AB"/&gt;       &lt;xs:enumeration value="BC"/&gt;       &lt;xs:enumeration value="MB"/&gt;       &lt;xs:enumeration value="NB"/&gt;       &lt;xs:enumeration value="NL"/&gt;       &lt;xs:enumeration value="NS"/&gt;       &lt;xs:enumeration value="ON"/&gt;       &lt;xs:enumeration value="PE"/&gt;       &lt;xs:enumeration value="QC"/&gt;       &lt;xs:enumeration value="SK"/&gt;       &lt;xs:enumeration value="YT"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

### Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.2.2.10 PostalCode

### Description

Lists the consumer's Postal Code of the service address.

### Layout



### Element Specifications

<b>Usage</b>	Optional – Once Maximum (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>▪ ServiceAddress</li> </ul>

<b>Child Elements</b>	▪ None
<b>Type</b>	xs:string
<b>Facets</b>	\p{Lu}\p{Nd}\p{Lu}\p{Nd}\p{Lu}\p{Nd} → C#C#C# (no spaces)
<b>Source Design</b>	<pre> &lt;xs:element name="PostalCode"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:pattern value="\p{Lu}\p{Nd}\p{Lu}\p{Nd}\p{Lu}\p{Nd}"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

### Attribute Specifications

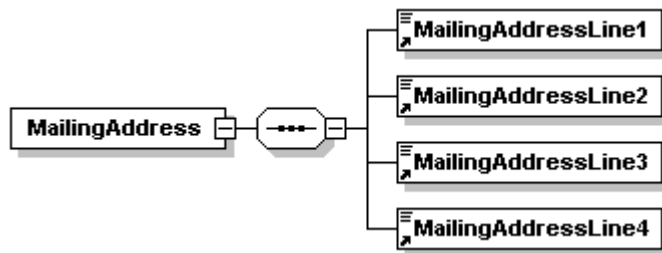
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.2.3 *MailingAddress*

### Description

Lists the consumer's mailing address information.

### Layout



### Element Specifications

<b>Usage</b>	Optional – Once Maximum (per parent element)
<b>Parent Elements</b>	▪ AccountInformation
<b>Child Elements</b>	▪ MailingAddressLine1 ▪ MailingAddressLine2 ▪ MailingAddressLine3 ▪ MailingAddressLine4
<b>Type</b>	xs:complexType
<b>Facets</b>	N/A

<b>Source Design</b>	<pre> &lt;xs:element name="MailingAddress"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="MailingAddressLine1"/&gt;       &lt;xs:element ref="MailingAddressLine2"/&gt;       &lt;xs:element ref="MailingAddressLine3"/&gt;       &lt;xs:element ref="MailingAddressLine4"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>
----------------------	---

### Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.2.3.1 MailingAddressLine1

### Description

This contains the first line of the mailing address of the consumer.

### Layout



### Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>MailingAddress</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:string
<b>Facets</b>	Min Length = 0; Max Length = 100
<b>Source Design</b>	<pre> &lt;xs:element name="MailingAddressLine1"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="0"/&gt;       &lt;xs:maxLength value="100"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

### Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.2.3.2 *MailingAddressLine2*

##### Description

This contains the second line of the mailing address of the consumer.

##### Layout

 **MailingAddressLine2**

##### Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"><li>▪ MailingAddress</li></ul>
<b>Child Elements</b>	<ul style="list-style-type: none"><li>▪ None</li></ul>
<b>Type</b>	xs:string
<b>Facets</b>	Min Length = 0; Max Length = 100
<b>Source Design</b>	<pre>&lt;xs:element name="MailingAddressLine2"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="0"/&gt;       &lt;xs:maxLength value="100"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt;</pre>

##### Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.2.3.3 *MailingAddressLine3*

##### Description

This contains the third line of the mailing address of the consumer.

##### Layout

 **MailingAddressLine3**

##### Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"><li>▪ MailingAddress</li></ul>
<b>Child Elements</b>	<ul style="list-style-type: none"><li>▪ None</li></ul>

<b>Type</b>	xs:string
<b>Facets</b>	Min Length = 0; Max Length = 100
<b>Source Design</b>	<pre> &lt;xs:element name="MailingAddressLine3"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="0"/&gt;       &lt;xs:maxLength value="100"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

#### Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.2.3.4 MailingAddressLine4

##### Description

This contains the fourth line of the mailing address of the consumer. For Union Gas, this element is empty.

##### Layout

 **MailingAddressLine4**

#### Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>MailingAddress</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:string
<b>Facets</b>	Min Length = 0; Max Length = 100
<b>Source Design</b>	<pre> &lt;xs:element name="MailingAddressLine4"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="0"/&gt;       &lt;xs:maxLength value="100"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

#### Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.2.4 *MeterNumber*

##### Description

This is the meter number as listed in the Distributor's repository.

##### Layout



##### Element Specifications

Usage	Optional – Once Maximum (per parent element)
Parent Elements	<ul style="list-style-type: none"><li>AccountInformation</li></ul>
Child Elements	<ul style="list-style-type: none"><li>None</li></ul>
Type	xs:string
Facets	<ul style="list-style-type: none"><li>pattern = [0-9]{0,15}</li></ul>
Source Design	<pre>&lt;xs:element name="MeterNumber"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:pattern value="[0-9]{0,15}" /&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt;</pre>

##### Attribute Specifications

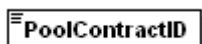
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.3 *PoolContractID*

##### Description

This lists the current contract/pool that the consumer is associated with.

##### Layout



##### Element Specifications

Usage	Required – Exactly Once (per parent element)
Parent Elements	<ul style="list-style-type: none"><li>Consumer</li></ul>
Child Elements	<ul style="list-style-type: none"><li>None</li></ul>
Type	xs:string
Facets	N/A



<b>Source Design</b>	<pre> &lt;xs:element name="PoolContractID"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="0"/&gt;       &lt;xs:maxLength value="40"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>
----------------------	---

#### Attribute Specifications

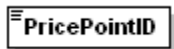
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.4 PricePointID

##### Description

This lists the Price Point the consumer is currently associated to.

##### Layout



#### Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>Consumer</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:string
<b>Facets</b>	N/A
<b>Source Design</b>	<pre> &lt;xs:element name="PricePointID"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="0"/&gt;       &lt;xs:maxLength value="40"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

#### Attribute Specifications

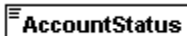
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.5 AccountStatus

##### Description

This lists the consumer's account activity status.

## Layout

 **AccountStatus**

## Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"><li>▪ Consumer</li></ul>
<b>Child Elements</b>	<ul style="list-style-type: none"><li>▪ None</li></ul>
<b>Type</b>	xs:string
<b>Facets</b>	N/A
<b>Source Design</b>	<pre>&lt;xs:element name="AccountStatus"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"/&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt;</pre>

## Attribute Specifications

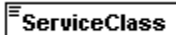
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

### 1.1.2.1.6 ServiceClass

#### Description

This indicates whether the consumer is an industrial, residential or commercial gas user.

## Layout

 **ServiceClass**

## Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent)
<b>Parent Elements</b>	<ul style="list-style-type: none"><li>▪ Consumer</li></ul>
<b>Child Elements</b>	<ul style="list-style-type: none"><li>▪ None</li></ul>
<b>Type</b>	xs:string
<b>Facets</b>	N/A
<b>Source Design</b>	<pre>&lt;xs:element name="ServiceClass"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"/&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt;</pre>

## Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 1.1.2.1.7 InactiveDate

##### Description

This will only be filled if the account is inactive (AccountStatus element) and filled with the date on which the account became inactive. Otherwise, this element is not included.

##### Layout



##### Element Specifications

Usage	Optional – Once Maximum
Parent Elements	<ul style="list-style-type: none"> <li>Consumer</li> </ul>
Child Elements	<ul style="list-style-type: none"> <li>None</li> </ul>
Type	xs:date
Facets	YYYY-MM-DD
Source Design	<code>&lt;xs:element name="InactiveDate" type="xs:date"/&gt;</code>

##### Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

## 2 Schema Specifications – Price Point Cross Reference

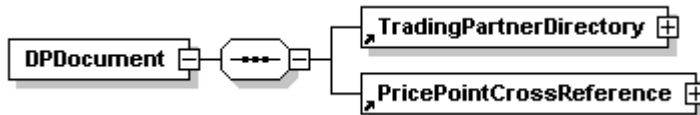
The following is a list of element and attribute specifications for the XML schema. It will contain formatting constraints, type values, layout and any additional information such as the applicable business uses for the fields.

### 2.1 DPDocument

#### Description

This is the root element of the transaction request and contains attributes that describe the XML document and the type of transaction that the XML document represents.

#### Layout



#### Element Specifications

Usage	Required – Exactly Once
Parent Elements	<ul style="list-style-type: none"><li>▪ None</li></ul>
Child Elements	<ul style="list-style-type: none"><li>▪ TradingPartnerDirectory</li><li>▪ PricePointCrossReference</li></ul>
Type	xs:complexType
Facets	N/A

**Source Design**

```
<xs:element name="DPDocument">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="TradingPartnerDirectory"/>
      <xs:element ref="PricePointCrossReference"/>
    </xs:sequence>
    <xs:attribute name="Version" use="required">
      <xs:simpleType>
        <xs:restriction base="xs:decimal">
          <xs:minInclusive value="0.0"/>
          <xs:maxInclusive value="99999999.99"/>
          <xs:fractionDigits value="3"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="DocumentDefinitionName" use="required">
      <xs:simpleType>
        <xs:restriction base="xs:NMTOKEN">
          <xs:enumeration value="PricePointCrossReference"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="DistributorDocumentReference" type="xs:string" use="optional"/>
    <xs:attribute name="CreationDate" type="xs:date" use="required"/>
  </xs:complexType>
</xs:element>
```

**Attribute Specifications**

Name	Type	Usage	Facets	Description
Version	xs:decimal	Required	N/A	The version of the XML schema that corresponds to this document. Currently, the version of this schema is 1.2
DocumentDefinitionName	xs:NMTOKEN	Required	Enum	The value contained for this attribute must be equivalent to the body element of the schema. For example, this schema requires that the value be:  <i>PricePointCrossReference</i>
DistributorDocumentReference	xs:string	Optional	N/A	This is the distributor's document tracking identifier of the report document. It will only be populated by Union Gas.
CreationDate	xs:date	Required	YYYY-	This is the creation date of

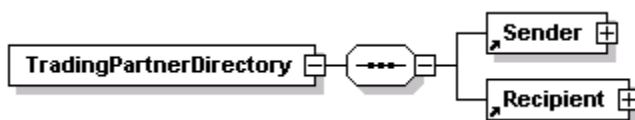
			MM-DD	the document.
--	--	--	-------	---------------

### 2.1.1 TradingPartnerDirectory

#### Description

This is the header information containing the information on the parties involved in the transmission of the document.

#### Layout



#### Element Specifications

<b>Usage</b>	Required – Exactly Once
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>DPDocument</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>Sender</li> <li>Recipient</li> </ul>
<b>Type</b>	xs:complexType
<b>Facets</b>	N/A
<b>Source Design</b>	<pre> &lt;xs:element name="TradingPartnerDirectory"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="Sender"/&gt;       &lt;xs:element ref="Recipient"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

#### Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 2.1.1.1 Sender

#### Description

This element contains information of the sender of the document. For this schema, the information belongs to the Distributor.

#### Layout



#### Element Specifications

<b>Usage</b>	Required – Exactly Once
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>TradingPartnerDirectory</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>TradingPartner</li> </ul>
<b>Type</b>	xs:complexType
<b>Facets</b>	
<b>Source Design</b>	<pre>&lt;xs:element name="Sender"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="TradingPartner"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

### Attribute Specifications

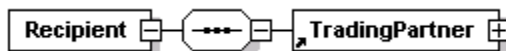
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 2.1.1.2 Recipient

##### Description

This element contains information of the recipient of the document. For this schema, the information belongs to the Vendor.

##### Layout



##### Element Specifications

<b>Usage</b>	Required – Exactly Once
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>TradingPartnerDirectory</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>TradingPartner</li> </ul>
<b>Type</b>	xs:complexType
<b>Facets</b>	
<b>Source Design</b>	<pre>&lt;xs:element name="Recipient"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="TradingPartner"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

### Attribute Specifications

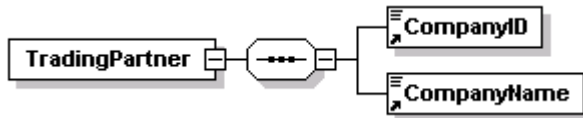
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 2.1.1.2.1 TradingPartner

##### Description

This element contains information of the sender or recipient of the document. For this schema, the sender information belongs to the Gas Distributor and the recipient information belongs to the Vendor.

##### Layout



##### Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>Recipient</li> <li>Sender</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>CompanyID</li> <li>CompanyName</li> </ul>
<b>Type</b>	xs:complexType
<b>Facets</b>	
<b>Source Design</b>	<pre> &lt;xs:element name="TradingPartner"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="CompanyID"/&gt;       &lt;xs:element ref="CompanyName"/&gt;     &lt;/xs:sequence&gt;     &lt;xs:attribute name="ParticipantType" use="required"&gt;       &lt;xs:simpleType&gt;         &lt;xs:restriction base="xs:NMTOKEN"&gt;           &lt;xs:enumeration value="Distributor"/&gt;           &lt;xs:enumeration value="Retailer"/&gt;         &lt;/xs:restriction&gt;       &lt;/xs:simpleType&gt;     &lt;/xs:attribute&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

##### Attribute Specifications

Name	Type	Usage	Facets	Description
ParticipantType	xs:NMTOKEN	Required	Enum	<p>The role that the particular party plays in the submission.</p> <p>For this schema, the</p>



				Sender's ParticipantType = "Distributor" and the Recipient's ParticipantType = "Retailer".
--	--	--	--	--

#### 2.1.1.2.1.1 CompanyID

##### Description

This element contains the unique identifier of the company identified by the TradingPartner. If the TradingPartner is the sender of the document for this particular schema type, the value listed is the Distributor's identifier for the Vendor.

##### Layout



##### Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>TradingPartner</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:string
<b>Facets</b>	
<b>Source Design</b>	<pre>&lt;xs:element name="CompanyID"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"/&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt;</pre>

##### Attribute Specifications

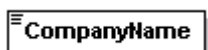
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 2.1.1.2.1.2 CompanyName

##### Description

This element contains the company's name, either the Vendor if it is the Recipient for this document type or the Distributor if is the Sender for this document type.

##### Layout



##### Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>TradingPartner</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:string
<b>Facets</b>	<ul style="list-style-type: none"> <li>minLength = 1</li> <li>maxLength = 300</li> </ul>
<b>Source Design</b>	<pre> &lt;xs:element name="CompanyName"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="1"/&gt;       &lt;xs:maxLength value="300"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

### Attribute Specifications

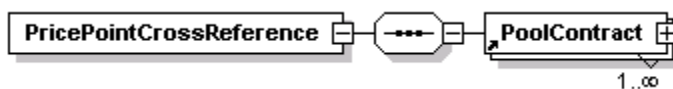
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

### 2.1.2 PricePointCrossReference

#### Description

This is the body element of the report. It contains the transaction specific information record(s) that will appear inside the body.

#### Layout



### Element Specifications

<b>Usage</b>	Required – Exactly Once
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>DPDocument</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>PoolContract</li> </ul>
<b>Type</b>	xs:complexType
<b>Facets</b>	N/A
<b>Source Design</b>	<pre> &lt;xs:element name="PricePointCrossReference"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="PoolContract" maxOccurs="unbounded"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

## Attribute Specifications

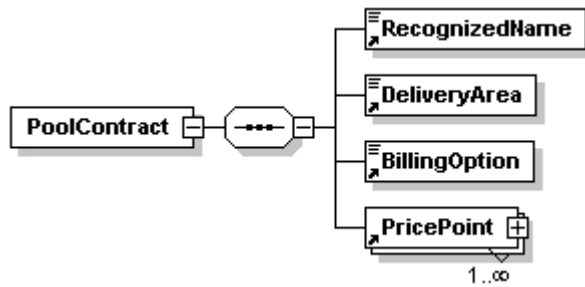
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

### 2.1.2.1 PoolContract

#### Description

This is the container for the pool/contract's information.

#### Layout



#### Element Specifications

<b>Usage</b>	Required – Unbounded
<b>Parent Elements</b>	<ul style="list-style-type: none"><li>PricePointCrossReference</li></ul>
<b>Child Elements</b>	<ul style="list-style-type: none"><li>RecognizedName</li><li>DeliveryArea</li><li>BillingOption</li><li>PricePoint</li></ul>
<b>Type</b>	xs:complexType
<b>Facets</b>	N/A

<b>Source Design</b>	<pre> &lt;xs:element name="PoolContract"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="RecognizedName"/&gt;       &lt;xs:element ref="DeliveryArea"/&gt;       &lt;xs:element ref="BillingOption"/&gt;       &lt;xs:element ref="PricePoint" maxOccurs="unbounded"/&gt;     &lt;/xs:sequence&gt;     &lt;xs:attribute name="PoolContractID"&gt;       &lt;xs:simpleType&gt;         &lt;xs:restriction base="xs:string"&gt;           &lt;xs:minLength value="0"/&gt;           &lt;xs:maxLength value="40"/&gt;         &lt;/xs:restriction&gt;       &lt;/xs:simpleType&gt;     &lt;/xs:attribute&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>
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## Attribute Specifications

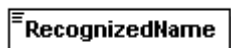
Name	Type	Usage	Facets	Description
PoolContractID	xs:string	Required	Min 0; Max 40;	This is the unique identifier of the Pool/Contract

### 2.1.2.1.1 RecognizedName

#### Description

This contains the pool/contract's name as defined by the Vendor.

#### Layout



## Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>PoolContract</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:string
<b>Facets</b>	N/A
<b>Source Design</b>	<pre> &lt;xs:element name="RecognizedName"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"/&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

## Attribute Specifications

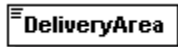
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 2.1.2.1.2 DeliveryArea

##### Description

This contains the delivery area for the pool/contract

##### Layout



##### Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>PoolContract</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:string
<b>Facets</b>	enumeration = CDA enumeration = EDA enumeration = MDA enumeration = NDA enumeration = SDA enumeration = WDA enumeration = SOU
<b>Source Design</b>	<pre> &lt;xs:element name="DeliveryArea"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="CDA"/&gt;       &lt;xs:enumeration value="EDA"/&gt;       &lt;xs:enumeration value="MDA"/&gt;       &lt;xs:enumeration value="NDA"/&gt;       &lt;xs:enumeration value="SDA"/&gt;       &lt;xs:enumeration value="WDA"/&gt;       &lt;xs:enumeration value="SOU"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

##### Attribute Specifications

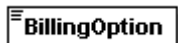
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 2.1.2.1.3 BillingOption

##### Description

This indicates the billing option of the pool/contract.

## Layout



## Element Specifications

Usage	Required – Exactly Once (per parent element)
Parent Elements	<ul style="list-style-type: none"><li>PoolContract</li></ul>
Child Elements	<ul style="list-style-type: none"><li>None</li></ul>
Type	xs:string
Facets	N/A
Source Design	<pre>&lt;xs:element name="BillingOption"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"/&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt;</pre>

## Attribute Specifications

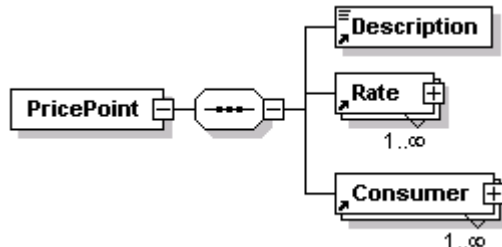
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

### 2.1.2.1.4 PricePoint

#### Description

This is the container for price point information.

## Layout



## Element Specifications

Usage	Required – Unbounded
Parent Elements	<ul style="list-style-type: none"><li>PoolContract</li></ul>
Child Elements	<ul style="list-style-type: none"><li>Description</li><li>Rate</li><li>Consumer</li></ul>

<b>Type</b>	xs:complexType
<b>Facets</b>	N/A
<b>Source Design</b>	<pre> &lt;xs:element name="PricePoint"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="Description"/&gt;       &lt;xs:element ref="Rate" maxOccurs="unbounded"/&gt;       &lt;xs:element ref="Consumer" maxOccurs="unbounded"/&gt;     &lt;/xs:sequence&gt;     &lt;xs:attribute name="PricePointID"&gt;       &lt;xs:simpleType&gt;         &lt;xs:restriction base="xs:string"&gt;           &lt;xs:minLength value="0"/&gt;           &lt;xs:maxLength value="40"/&gt;         &lt;/xs:restriction&gt;       &lt;/xs:simpleType&gt;     &lt;/xs:attribute&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

### Attribute Specifications

Name	Type	Usage	Facets	Description
PricePointID	xs:string	Required	Min 0; Max 40;	This is the unique identifier for the price point.

#### 2.1.2.1.4.1 Description

##### Description

This is the description of the price point as defined by the Vendor. It would be empty if the Vendor had not specified a description.

##### Layout



##### Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>PricePoint</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:string
<b>Facets</b>	N/A
<b>Source Design</b>	<pre> &lt;xs:element name="Description"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"/&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

## Attribute Specifications

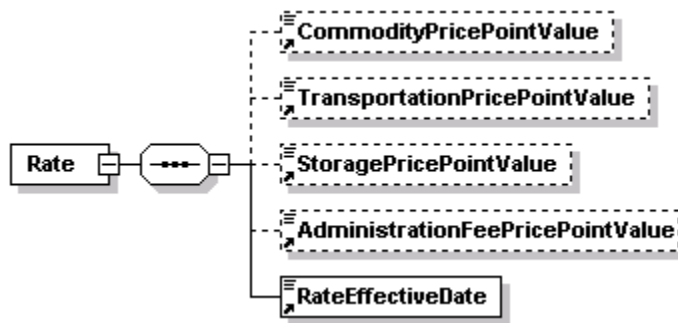
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

### 2.1.2.1.4.2 Rate

#### Description

This is the container element for the rates of the price point.

#### Layout



#### Element Specifications

Usage	Required – Unbounded
Parent Elements	<ul style="list-style-type: none"><li>PricePoint</li></ul>
Child Elements	<ul style="list-style-type: none"><li>CommodityPricePointValue</li><li>TransportationPricePointValue</li><li>StoragePricePointValue</li><li>AdministrationFeePricePointValue</li><li>RateEffectiveDate</li></ul>
Type	xs:complexType
Facets	N/A
Source Design	<pre>&lt;xs:element name="Rate"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="CommodityPricePointValue" minOccurs="0"/&gt;       &lt;xs:element ref="TransportationPricePointValue" minOccurs="0"/&gt;       &lt;xs:element ref="StoragePricePointValue" minOccurs="0"/&gt;       &lt;xs:element ref="AdministrationFeePricePointValue" minOccurs="0"/&gt;       &lt;xs:element ref="RateEffectiveDate"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

## Attribute Specifications



Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 2.1.2.1.4.2.1 *CommodityPricePointValue*

##### Description

This is the rate defined for the commodity of the gas.

##### Layout

 **CommodityPricePointValue**

##### Element Specifications

<b>Usage</b>	Optional – Maximum Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>Rate</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:double
<b>Facets</b>	N/A
<b>Source Design</b>	<code>&lt;xs:element name="CommodityPricePointValue" type="xs:double"/&gt;</code>

##### Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 2.1.2.1.4.2.2 *TransportationPricePointValue*

##### Description

This is the rate defined for the transportation of the gas.

##### Layout

 **TransportationPricePointValue**

##### Element Specifications

<b>Usage</b>	Optional – Maximum Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>Rate</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:double
<b>Facets</b>	N/A
<b>Source Design</b>	<code>&lt;xs:element name="TransportationPricePointValue" type="xs:double"/&gt;</code>

##### Attribute Specifications


Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 2.1.2.1.4.2.3 *StoragePricePointValue*

##### Description

This is the rate for the storage of the gas.

##### Layout

 **StoragePricePointValue**

##### Element Specifications

<b>Usage</b>	Optional – Maximum Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>Rate</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:double
<b>Facets</b>	N/A
<b>Source Design</b>	<code>&lt;xs:element name="StoragePricePointValue" type="xs:double"/&gt;</code>

##### Attribute Specifications


Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 2.1.2.1.4.2.4 *AdministrationFeePricePointValue*

##### Description

This is an additional fee that can be set for the price point rate.

##### Layout

 **AdministrationFeePricePointValue**

##### Element Specifications

<b>Usage</b>	Optional – Maximum Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>Rate</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:double
<b>Facets</b>	N/A
<b>Source Design</b>	<code>&lt;xs:element name="AdministrationFeePricePointValue" type="xs:double"/&gt;</code>

##### Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 2.1.2.1.4.2.5 *RateEffectiveDate*

##### Description

This is the date for which the rates are to be effective.

##### Layout



##### Element Specifications

Usage	Required – Exactly Once (per parent element)
Parent Elements	<ul style="list-style-type: none"> <li>Rate</li> </ul>
Child Elements	<ul style="list-style-type: none"> <li>None</li> </ul>
Type	xs:date
Facets	N/A
Source Design	<code>&lt;xs:element name="RateEffectiveDate" type="xs:date"/&gt;</code>

##### Attribute Specifications

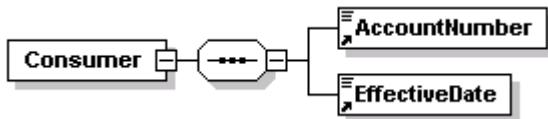
Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 2.1.2.1.4.3 *Consumer*

##### Description

This is the container for the consumer information elements.

##### Layout



##### Element Specifications

Usage	Required – Unbounded
Parent Elements	<ul style="list-style-type: none"> <li>PricePoint</li> </ul>
Child Elements	<ul style="list-style-type: none"> <li>AccountNumber</li> <li>EffectiveDate</li> </ul>
Type	xs:complexType
Facets	N/A

<b>Source Design</b>	<pre> &lt;xs:element name="Consumer"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="AccountNumber"/&gt;       &lt;xs:element ref="EffectiveDate"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>
----------------------	---

### Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 2.1.2.1.4.3.1 AccountNumber

##### Description

This is the unique identifier for the account.

##### Layout

**AccountNumber**

##### Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"> <li>Consumer</li> </ul>
<b>Child Elements</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Type</b>	xs:string
<b>Facets</b>	<ul style="list-style-type: none"> <li>minLength = 6</li> <li>maxLength = 14</li> </ul>
<b>Source Design</b>	<pre> &lt;xs:element name="AccountNumber"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:minLength value="6"/&gt;       &lt;xs:maxLength value="14"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>

### Attribute Specifications

Name	Type	Usage	Facets	Description
N/A	N/A	N/A	N/A	N/A

#### 2.1.2.1.4.3.2 EffectiveDate

##### Description

This is the date on which the consumer was effective on this price point.

## Layout



## Element Specifications

<b>Usage</b>	Required – Exactly Once (per parent element)
<b>Parent Elements</b>	<ul style="list-style-type: none"><li>▪ Consumer</li></ul>
<b>Child Elements</b>	<ul style="list-style-type: none"><li>▪ None</li></ul>
<b>Type</b>	xs:date
<b>Facets</b>	YYYY-MM-DD
<b>Source Design</b>	<code>&lt;xs:element name="EffectiveDate" type="xs:date"/&gt;</code>

## Attribute Specifications

<b>Name</b>	<b>Type</b>	<b>Usage</b>	<b>Facets</b>	<b>Description</b>
N/A	N/A	N/A	N/A	N/A

### 3 Appendix A – Montly Account Activity Report Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" attributeFormDefault="unqualified">
  <xs:element name="DPDocument">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="TradingPartnerDirectory"/>
        <xs:element ref="MonthlyAccountActivity"/>
      </xs:sequence>
      <xs:attribute name="Version" use="required">
        <xs:simpleType>
          <xs:restriction base="xs:decimal">
            <xs:minInclusive value="0.0"/>
            <xs:maxInclusive value="99999999.99"/>
            <xs:fractionDigits value="3"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
      <xs:attribute name="DocumentDefinitionName" use="required">
        <xs:simpleType>
          <xs:restriction base="xs:NMTOKEN">
            <xs:enumeration value="MonthlyAccountActivity"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
      <xs:attribute name="DistributorDocumentReference" type="xs:string" use="optional"/>
      <xs:attribute name="CreationDate" type="xs:date" use="required"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="TradingPartnerDirectory">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="Sender"/>
        <xs:element ref="Recipient"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Sender">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="TradingPartner"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Recipient">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="TradingPartner"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="TradingPartner">
    <xs:complexType>
```

```

    <xs:sequence>
      <xs:element ref="CompanyID"/>
      <xs:element ref="CompanyName"/>
    </xs:sequence>
    <xs:attribute name="ParticipantType" use="required">
      <xs:simpleType>
        <xs:restriction base="xs:NMTOKEN">
          <xs:enumeration value="Distributor"/>
          <xs:enumeration value="Retailer"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>
</xs:element>
<xs:element name="CompanyName">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="1"/>
      <xs:maxLength value="300"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="CompanyID">
  <xs:simpleType>
    <xs:restriction base="xs:string"/>
  </xs:simpleType>
</xs:element>
<xs:element name="MonthlyAccountActivity">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="Consumer" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Consumer">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="AccountNumber"/>
      <xs:element ref="AccountInformation"/>
      <xs:element ref="PoolContractID"/>
      <xs:element ref="PricePointID"/>
      <xs:element ref="AccountStatus"/>
      <xs:element ref="ServiceClass"/>
      <xs:element ref="InactiveDate" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="AccountNumber">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="6"/>
      <xs:maxLength value="14"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>

```

```

<xs:element name="AccountInformation">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="ConsumerName" minOccurs="0"/>
      <xs:element ref="ServiceAddress" minOccurs="0"/>
      <xs:element ref="MailingAddress" minOccurs="0"/>
      <xs:element ref="MeterNumber" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ConsumerName">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="FirstName"/>
      <xs:element ref="MiddleName"/>
      <xs:element ref="LastName"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="FirstName">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="0"/>
      <xs:maxLength value="100"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="MiddleName">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="0"/>
      <xs:maxLength value="100"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="LastName">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="0"/>
      <xs:maxLength value="100"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="ServiceAddress">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="HouseNumber" minOccurs="0"/>
      <xs:element ref="HouseNumberSuffix" minOccurs="0"/>
      <xs:element ref="StreetName" minOccurs="0"/>
      <xs:element ref="StreetType" minOccurs="0"/>
      <xs:element ref="StreetDirection" minOccurs="0"/>
      <xs:element ref="UnitNumber" minOccurs="0"/>
      <xs:element ref="UnitType" minOccurs="0"/>
      <xs:element ref="City" minOccurs="0"/>
      <xs:element ref="Province" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```



```

        <xs:element ref="PostalCode" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="HouseNumber">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:minLength value="0"/>
            <xs:maxLength value="10"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="HouseNumberSuffix">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:minLength value="0"/>
            <xs:maxLength value="10"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="StreetName">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:minLength value="0"/>
            <xs:maxLength value="55"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="StreetType">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:minLength value="0"/>
            <xs:maxLength value="10"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="StreetDirection">
    <xs:simpleType>
        <xs:restriction base="xs:NMTOKEN">
            <xs:enumeration value="N"/>
            <xs:enumeration value="S"/>
            <xs:enumeration value="W"/>
            <xs:enumeration value="E"/>
            <xs:enumeration value="NW"/>
            <xs:enumeration value="NE"/>
            <xs:enumeration value="SW"/>
            <xs:enumeration value="SE"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="UnitNumber">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:minLength value="0"/>
            <xs:maxLength value="40"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>

```

```

        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="UnitType">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="0"/>
          <xs:maxLength value="10"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="City">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="0"/>
          <xs:maxLength value="20"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="Province">
      <xs:simpleType>
        <xs:restriction base="xs:NMTOKEN">
          <xs:enumeration value="AB"/>
          <xs:enumeration value="BC"/>
          <xs:enumeration value="MB"/>
          <xs:enumeration value="NB"/>
          <xs:enumeration value="NL"/>
          <xs:enumeration value="NS"/>
          <xs:enumeration value="ON"/>
          <xs:enumeration value="PE"/>
          <xs:enumeration value="QC"/>
          <xs:enumeration value="SK"/>
          <xs:enumeration value="YT"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="PostalCode">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="\p{Lu}\p{Nd}\p{Lu}\p{Nd}\p{Lu}\p{Nd}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="MailingAddress">
      <xs:complexType>
        <xs:sequence>
          <xs:element ref="MailingAddressLine1"/>
          <xs:element ref="MailingAddressLine2"/>
          <xs:element ref="MailingAddressLine3"/>
          <xs:element ref="MailingAddressLine4"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="MailingAddressLine1">
      <xs:simpleType>

```

```

        <xs:restriction base="xs:string">
            <xs:minLength value="0"/>
            <xs:maxLength value="100"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="MailingAddressLine2">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:minLength value="0"/>
            <xs:maxLength value="100"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="MailingAddressLine3">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:minLength value="0"/>
            <xs:maxLength value="100"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="MailingAddressLine4">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:minLength value="0"/>
            <xs:maxLength value="100"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="MeterNumber">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:pattern value="[0-9]{0,15}"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="PoolContractID">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:minLength value="0"/>
            <xs:maxLength value="40"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="PricePointID">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:minLength value="0"/>
            <xs:maxLength value="40"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="AccountStatus">
    <xs:simpleType>

```

```
        <xs:restriction base="xs:string"/>
    </xs:simpleType>
</xs:element>
<xs:element name="ServiceClass">
    <xs:simpleType>
        <xs:restriction base="xs:string"/>
    </xs:simpleType>
</xs:element>
<xs:element name="InactiveDate" type="xs:date"/>
</xs:schema>
```

## 4 Appendix B – Price Point Cross Reference Report Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" attributeFormDefault="unqualified">
  <xs:element name="DPDocument">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="TradingPartnerDirectory"/>
        <xs:element ref="PricePointCrossReference"/>
      </xs:sequence>
      <xs:attribute name="Version" use="required">
        <xs:simpleType>
          <xs:restriction base="xs:decimal">
            <xs:minInclusive value="0.0"/>
            <xs:maxInclusive value="99999999.99"/>
            <xs:fractionDigits value="3"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
      <xs:attribute name="DocumentDefinitionName" use="required">
        <xs:simpleType>
          <xs:restriction base="xs:NMTOKEN">
            <xs:enumeration value="PricePointCrossReference"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
      <xs:attribute name="DistributorDocumentReference" type="xs:string" use="optional"/>
      <xs:attribute name="CreationDate" type="xs:date" use="required"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="TradingPartnerDirectory">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="Sender"/>
        <xs:element ref="Recipient"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Sender">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="TradingPartner"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Recipient">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="TradingPartner"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

<xs:element name="TradingPartner">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="CompanyID"/>
      <xs:element ref="CompanyName"/>
    </xs:sequence>
    <xs:attribute name="ParticipantType" use="required">
      <xs:simpleType>
        <xs:restriction base="xs:NMTOKEN">
          <xs:enumeration value="Distributor"/>
          <xs:enumeration value="Retailer"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>
</xs:element>
<xs:element name="CompanyName">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="1"/>
      <xs:maxLength value="300"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="CompanyID">
  <xs:simpleType>
    <xs:restriction base="xs:string"/>
  </xs:simpleType>
</xs:element>
<xs:element name="PricePointCrossReference">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="PoolContract" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="PoolContract">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="RecognizedName"/>
      <xs:element ref="DeliveryArea"/>
      <xs:element ref="BillingOption"/>
      <xs:element ref="PricePoint" maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="PoolContractID">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:minLength value="0"/>
          <xs:maxLength value="40"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>
</xs:element>
<xs:element name="RecognizedName">

```

```

    <xs:simpleType>
      <xs:restriction base="xs:string"/>
    </xs:simpleType>
  </xs:element>
  <xs:element name="DeliveryArea">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="CDA"/>
        <xs:enumeration value="EDA"/>
        <xs:enumeration value="MDA"/>
        <xs:enumeration value="NDA"/>
        <xs:enumeration value="SDA"/>
        <xs:enumeration value="WDA"/>
        <xs:enumeration value="SOU"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="BillingOption">
    <xs:simpleType>
      <xs:restriction base="xs:string"/>
    </xs:simpleType>
  </xs:element>
  <xs:element name="PricePoint">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="Description"/>
        <xs:element ref="Rate" maxOccurs="unbounded"/>
        <xs:element ref="Consumer" maxOccurs="unbounded"/>
      </xs:sequence>
      <xs:attribute name="PricePointID">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:minLength value="0"/>
            <xs:maxLength value="40"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
    </xs:complexType>
  </xs:element>
  <xs:element name="Description">
    <xs:simpleType>
      <xs:restriction base="xs:string"/>
    </xs:simpleType>
  </xs:element>
  <xs:element name="Rate">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="CommodityPricePointValue" minOccurs="0"/>
        <xs:element ref="TransportationPricePointValue" minOccurs="0"/>
        <xs:element ref="StoragePricePointValue" minOccurs="0"/>
        <xs:element ref="AdministrationFeePricePointValue" minOccurs="0"/>
        <xs:element ref="RateEffectiveDate"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

<xs:element name="CommodityPricePointValue" type="xs:double"/>
<xs:element name="TransportationPricePointValue" type="xs:double"/>
<xs:element name="StoragePricePointValue" type="xs:double"/>
<xs:element name="AdministrationFeePricePointValue" type="xs:double"/>
<xs:element name="RateEffectiveDate" type="xs:date"/>
<xs:element name="Consumer">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="AccountNumber"/>
      <xs:element ref="EffectiveDate"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="AccountNumber">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="6"/>
      <xs:maxLength value="14"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="EffectiveDate" type="xs:date"/>
</xs:schema>

```



## 5 Appendix D – Monthly Account Activity Report XML Example

```
<?xml version="1.0" encoding="UTF-8"?>
<DPDocument Version="1.2" DocumentDefinitionName="MonthlyAccountActivity"
DistributorDocumentReference="123456789_7687683THGFTY65767" CreationDate="2004-04-03"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <TradingPartnerDirectory>
    <Sender>
      <TradingPartner ParticipantType="Distributor">
        <CompanyID>200300400</CompanyID>
        <CompanyName>Union Gas Ltd</CompanyName>
      </TradingPartner>
    </Sender>
    <Recipient>
      <TradingPartner ParticipantType="Retailer">
        <CompanyID>200300400</CompanyID>
        <CompanyName>Econogas</CompanyName>
      </TradingPartner>
    </Recipient>
  </TradingPartnerDirectory>
  <MonthlyAccountActivity>
    <Consumer>
      <AccountNumber>12345672345678</AccountNumber>
      <AccountInformation>
        <ConsumerName>
          <FirstName>ROBERT</FirstName>
          <MiddleName>G</MiddleName>
          <LastName>ORR</LastName>
        </ConsumerName>
        <ServiceAddress>
          <HouseNumber>123</HouseNumber>
          <HouseNumberSuffix>N</HouseNumberSuffix>
          <StreetName>MAIN</StreetName>
          <StreetType>ST</StreetType>
          <StreetDirection>NW</StreetDirection>
          <UnitNumber>400</UnitNumber>
          <UnitType>SUITE</UnitType>
          <City>PARRY SOUND</City>
          <Province>ON</Province>
          <PostalCode>A0A0A0</PostalCode>
        </ServiceAddress>
        <MailingAddress>
          <MailingAddressLine1>123 N MAIN ST NW</MailingAddressLine1>
          <MailingAddressLine2>SUITE 400</MailingAddressLine2>
          <MailingAddressLine3>PARRY SOUND ON</MailingAddressLine3>
          <MailingAddressLine4>A0A0A0</MailingAddressLine4>
        </MailingAddress>
        <MeterNumber>1234567</MeterNumber>
      </AccountInformation>
      <PoolContractID>SA1234</PoolContractID>
      <PricePointID>12345</PricePointID>
      <AccountStatus>A</AccountStatus>
    </Consumer>
  </MonthlyAccountActivity>
</DPDocument>
```

```
<ServiceClass>R</ServiceClass>
</Consumer>
<Consumer>
  <AccountNumber>23456783456789</AccountNumber>
  <AccountInformation>
    <ConsumerName>
      <FirstName>GORDON</FirstName>
      <MiddleName>A</MiddleName>
      <LastName>HOWE</LastName>
    </ConsumerName>
    <ServiceAddress>
      <HouseNumber>9</HouseNumber>
      <HouseNumberSuffix/>
      <StreetName>RED WING</StreetName>
      <StreetType>BLVD</StreetType>
      <UnitNumber/>
      <UnitType/>
      <City>SARNIA</City>
      <Province>ON</Province>
      <PostalCode>A0A0A0</PostalCode>
    </ServiceAddress>
    <MailingAddress>
      <MailingAddressLine1>PO BOX 123</MailingAddressLine1>
      <MailingAddressLine2>STATION MAIN</MailingAddressLine2>
      <MailingAddressLine3>DETROIT MI</MailingAddressLine3>
      <MailingAddressLine4>34343</MailingAddressLine4>
    </MailingAddress>
    <MeterNumber/>
  </AccountInformation>
  <PoolContractID>SA4321</PoolContractID>
  <PricePointID>54321</PricePointID>
  <AccountStatus>I</AccountStatus>
  <ServiceClass>C</ServiceClass>
  <InactiveDate>2003-11-15</InactiveDate>
</Consumer>
</MonthlyAccountActivity>
</DPDocument>
```

## 6 Appendix E – Price Point Cross Reference Report XML Example

```
<?xml version="1.0" encoding="UTF-8"?>
<DPDocument Version="1.2" DocumentDefinitionName="PricePointCrossReference"
DistributorDocumentReference="200300400_6576576HGFHGF576876876" CreationDate="2004-04-03"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <TradingPartnerDirectory>
    <Sender>
      <TradingPartner ParticipantType="Distributor">
        <CompanyID>123456789</CompanyID>
        <CompanyName>Union Gas Ltd</CompanyName>
      </TradingPartner>
    </Sender>
    <Recipient>
      <TradingPartner ParticipantType="Retailer">
        <CompanyID>200300400</CompanyID>
        <CompanyName>Econogas</CompanyName>
      </TradingPartner>
    </Recipient>
  </TradingPartnerDirectory>
  <PricePointCrossReference>
    <PoolContract PoolContractID="SA1234">
      <RecognizedName>ECONOGAS #21-ABCT</RecognizedName>
      <DeliveryArea>SOU</DeliveryArea>
      <BillingOption>ABC-TS</BillingOption>
      <PricePoint PricePointID="12345">
        <Description>5 YEAR BUDGET SAVER</Description>
        <Rate>
          <CommodityPricePointValue>29.12345</CommodityPricePointValue>
          <TransportationPricePointValue>4.12345</TransportationPricePointValue>
          <StoragePricePointValue>1.12345</StoragePricePointValue>
          <AdministrationFeePricePointValue>1.54</AdministrationFeePricePointValue>
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