



**Carrier Transport:**

**Quote API  
Communication Protocol (1.0)**

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**Carrier Systems**

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## 1 Introduction

### 1.1 Overview

The purpose of this document is to specify a communication protocol for Carrier customers utilizing the Windstream Carrier Portal to communicate with the Windstream servers for generating quote requests.

The protocol will utilize TCP/IP communication to transmit the data. The format for the data will follow a SOAP XML specification which is included here. This specification may be extended or modified as needed. In such cases where a change alters existing behavior, customers will be given notice with ample time to prepare and test before any changes will be made to production.

### 1.2 Audience

This document is intended for a technical audience that is already familiar with SOAP and XML protocols. This document does not discuss general SOAP or XML techniques, nor does it give specifics in any language with which to develop the client side.

## 2 General Information

This section details general information about the Communications Protocol, Document Conventions, as well as contact information for Windstream Carrier support.

### 2.1 Document Conventions

The conventions used throughout this document as described in the following table.

Font	Description	Example
Fixed Width	Used to indicate code examples and URIs, May be emphasized with bold or italics	<code>&lt;data&gt;\${data}&lt;/data&gt;</code>
\$	Used to indicate a variable to be replaced with customer data, generally italicized	<i>\${username}</i>
*	Used to indicate pseudo-code, generally bold and italicized	<b><i>*someaction</i></b>

### 2.2 Additional Documentation

Examples are available as are DTDs on the following website.

<https://api.windstreamwholesale.com/CPT/1.0>

### 2.3 Contacting Support

Support Contact Information TBD.

### 3 Transaction Overview

This API uses SOAP transactions to allow the customer to communicate with the Windstream Carrier systems. Each transaction consists of a synchronous request and response.

#### 3.1 Request Packets

All Request packets will include a UserInfo section. The format is the same for all packets sent.

##### 3.1.1 User Info Fields

Field	Description	Example
Username	(Required) String, supplied by Windstream	<Username value="someuser" />
Password	(Required) String, supplied by Windstream	<Password value="password" />

##### 3.1.2 Example XML Fields

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header/>
  <soap:Body xmlns:ns1="https://api.windstreamwholesale.com/*SomeAction">
    <QuoteDS1AggTail>
      <userInfo>
        <username>$username</username>
        <password>$password</password>
      </userInfo>
      *Additional Data
    </QuoteDS1AggTail>
  </soap:Body>
</soap:Envelope>
```

## 3.2 Reply Packets

Reply Packets will contain a ResponseInfo section with additional fields indicating the Reply status, as well as any error messages.

Field	Description	Example
respStatus	(Required)  Enum: SUCCESS FAIL	<code>&lt;respStatus value="SUCCESS" /&gt;</code>
quoteStatus	(Optional)  This field will only exist when sending Quote requests. It may not be populated if the respStatus was FAIL.  Response options are detailed in section 3.2.1.	<code>&lt;ErrCode value="STANDARD" /&gt;</code>
message	(Optional)  This field will generally only be populated on a FAIL or on certain QuoteStatus responses.  This field is used to give detailed messaging regarding the failure.	<code>&lt;message value="Invalid username or password." /&gt;</code>

### 3.2.1 Result Messages

Result	Explanation
STANDARD	There was a Standard pricing Result for the Request.
NONSTANDARD	The Request will require additional processing.
NOBANDWIDTH	The service is available for this Request, but not at the selected bandwidth.
ADDRESSINVALID	The Address was not able to be validated.
NOBID	We cannot provide the Requested Services at this time.



### 3.2.2 Example Result XML

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:GetProductsResponse>
      <return>
        <responseInfo>
          <message></message>
          <respStatus>SUCCESS</respStatus>
        </responseInfo>
        <products>
          <products>EthernetTail</products>
          <products>MPLSAggTail</products>
          <products>DSLAggTail</products>
        </products>
      </return>
    </ns2:GetProductsResponse>
  </S:Body>
</S:Envelope>
```

### 3.3 Special XML Characters

If an XML Request uses any special characters, they must be encoded as listed below.

Character	Encoding
&	&amp;
'	&apos;
"	&quot;
<	&gt;
>	&lt;

## 4 Requests

The API currently supports 3 Quote Types and a Help Function to get valid data needed for the quotes.

### 4.1 Helper Function

The following actions are used for helping determine the proper values for the Quote functions.

#### 4.1.1 Location

Action	Helper
Interop URL	TBD
Production URL	<a href="https://api.windstreamwholesale.com/CPT/1.0/Helper">https://api.windstreamwholesale.com/CPT/1.0/Helper</a>
Production WSDL	<a href="https://api.windstreamwholesale.com/CPT/1.0/Helper?wsdl">https://api.windstreamwholesale.com/CPT/1.0/Helper?wsdl</a>

## 4.1.2 Get Products

This function will return the Products available via the API. These Products will be used in other Helper Calls to get Circuits and Bandwidths. It only requires the UserInfo Section.

Field	Description	Example
userInfo	See Section 3.1.1	<userInfo> ... </userInfo>

### 4.1.2.1 Get Products Example Request XML

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <soapenv:Body>
    <GetProducts xmlns="http://helper.quote.cpt.windstreamwholesale.com/">
      <arg0 xmlns="">
        <userInfo>
          <password>$password</password>
          <username>$username</username>
        </userInfo>
      </arg0>
    </GetProducts>
  </soapenv:Body>
</soapenv:Envelope>
```

### 4.1.2.2 Get Products Example Reply XML

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:GetProductsResponse
xmlns:ns2="http://helper.quote.cpt.windstreamwholesale.com/">
      <return>
        <products>
          <product>EthernetTail</product>
          <product>MPLSAggTail</product>
          <product>DSLAggTail</product>
          <product>DIAPop</product>
          <product>DIAPrem</product>
        </products>
        <responseInfo>
          <message></message>
          <respStatus>SUCCESS</respStatus>
        </responseInfo>
      </return>
    </ns2:GetProductsResponse>
  </S:Body>
</S:Envelope>
```

### 4.1.3 Get Circuits

This function will return the Circuits available by the specified Product. These Circuits will be used in other Helper Calls to get Bandwidths as well as the Quoting Functions. It requires the UserInfo Section as well as a Product.

Field	Description	Example
userInfo	See Section 3.1.1	<userInfo> ... </userInfo>
product	Product as returned from 4.1.2	<product value="MPLSaggTail" />

#### 4.1.3.1 Get Circuits Example Request XML

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <soapenv:Body>
    <GetCircuits xmlns="http://helper.quote.cpt.windstreamwholesale.com/">
      <arg0 xmlns="">
        <product>MPLSaggTail</product>
        <userInfo>
          <password>$password</password>
          <username>$username</username>
        </userInfo>
      </arg0>
    </GetCircuits>
  </soapenv:Body>
</soapenv:Envelope>
```

#### 4.1.3.2 Get Circuits Example Response XML

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:GetCircuitsResponse
xmlns:ns2="http://helper.quote.cpt.windstreamwholesale.com/">
      <return>
        <circuits>
          <circuit>DS1</circuit>
          <circuit>ETHERNET</circuit>
        </circuits>
        <responseInfo>
          <message></message>
          <respStatus>SUCCESS</respStatus>
        </responseInfo>
      </return>
    </ns2:GetCircuitsResponse>
  </S:Body>
</S:Envelope>
```

## 4.1.4 Get Bandwidths

This function will return the Bandwidths available by the specified Product and Circuit. These Bandwidths will be used in the Quoting Functions. It requires the UserInfo Section as well as a Product and Circuit.

Field	Description	Example
userInfo	See Section 3.1.1	<userInfo> ... </userInfo>
product	Product as returned from 4.1.2	<product value="MPLSaggTail" />
circuit	Circuit as returned from 4.1.3	<circuit value="Ethernet" />

### 4.1.4.1 Get Bandwidths Example Request XML

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <soapenv:Body>
    <GetBandwidths xmlns="http://helper.quote.cpt.windstreamwholesale.com/">
      <arg0 xmlns="">
        <circuit>ETHERNET</circuit>
        <product>MPLSaggTail</product>
        <userInfo>
          <password>$password</password>
          <username>$username</username>
        </userInfo>
      </arg0>
    </GetBandwidths>
  </soapenv:Body>
</soapenv:Envelope>
```

### 4.1.4.2 Get Bandwidths Example Response XML

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:GetBandwidthsResponse
xmlns:ns2="http://helper.quote.cpt.windstreamwholesale.com/">
      <return>
        <bandwidths>
          <bandwidth>3</bandwidth>
          <bandwidth>5</bandwidth>
          ...
          <bandwidth>900</bandwidth>
          <bandwidth>1000</bandwidth>
        </bandwidths>
        <responseInfo>
          <message></message>
          <respStatus>SUCCESS</respStatus>
        </responseInfo>
      </return>
    </ns2:GetBandwidthsResponse>
  </S:Body>
</S:Envelope>
```

## 4.1.5 Get NNIs

This function will return the available NNIs for the specified Product. These NNIs will be used in the Quoting Functions. It requires the UserInfo Section as well as a Product. The returned list all available NNIs for quoting, as well as an indication of whether the Carrier customer is built to that NNI or not.

Field	Description	Example
userInfo	See Section 3.1.1	<userInfo> ... </userInfo>
product	Product as returned from 4.1.2	<product value="EthernetTail" />

### 4.1.5.1 Get NNIs Example Request XML

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <soapenv:Body>
    <GetNNIList xmlns="http://helper.quote.cpt.windstreamwholesale.com/">
      <arg0 xmlns="">
        <product>EthernetTail</product>
        <userInfo>
          <password>$password</password>
          <username>$username</username>
        </userInfo>
      </arg0>
    </GetNNIList>
  </soapenv:Body>
</soapenv:Envelope>
```

### 4.1.5.2 Get NNIs Example Response XML

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:GetNNIListResponse
xmlns:ns2="http://helper.quote.cpt.windstreamwholesale.com/">
      <return>
        <nnis>
          <built>>false</built>
          <cli>HDSNOHXAHR</cli>
        </nnis>
        <nnis>
          <built>>true</built>
          <cli>CHCGILDTHRC</cli>
        </nnis>
        ...
        <nnis>
          <built>>false</built>
          <cli>ASENVACYHRC</cli>
        </nnis>
      <responseInfo>
        <message></message>
        <respStatus>SUCCESS</respStatus>
      </responseInfo>
    </return>
  </ns2:GetNNIListResponse>
</S:Body>
</S:Envelope>
```

## 4.1.6 Get POPs

This function will return the available POPs for the specified State. These POPs will be used in the Quoting Functions. It requires the UserInfo Section as well as a state. If available, the search can be limited by Wire Center as well. The UID field will be the required ID for use in quoting against the returned POPs.

Field	Description	Example
userInfo	See Section 3.1.1	<userInfo> ... </userInfo>
state	Two character state code	<state value="IL" />
cswc	Wire Center CILI	<cswc value="BLVLILAD" />

### 4.1.6.1 Get POPs Example Request XML

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <soapenv:Body>
    <GetPops xmlns="http://helper.quote.cpt.windstreamwholesale.com/">
      <arg0 xmlns="">
        <state>AR</state>
        <userInfo>
          <password>$password</password>
          <username>$username</username>
        </userInfo>
      </arg0>
    </GetPops>
  </soapenv:Body>
</soapenv:Envelope>
```

### 4.1.6.2 Get POPs Example Response XML

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:GetPopsResponse xmlns:ns2="http://helper.quote.cpt.windstreamwholesale.com/">
      <return>
        <pops>
          <address>2700 EANES RD</address>
          <address2></address2>
          <city>North Little Ro</city>
          <county>PULASKI</county>
          <cswc>NLRKAR44</cswc>
          <lata>528</lata>
          <rateCenter>LITTLE ROCK</rateCenter>
          <state>AR</state>
          <uid>12</uid>
          <zip>72117</zip>
        </pops>
        ...
        <responseInfo>
          <message></message>
          <respStatus>SUCCESS</respStatus>
        </responseInfo>
      </return>
    </ns2:GetPopsResponse>
  </S:Body>
</S:Envelope>
```

## 4.2 Quote Functions

The following actions are used for obtaining Quotes from the Windstream Carrier Systems.

### 4.2.1 Common Objects

The following objects are used in many or all quotes. Instead of describing them with each function, we will list them here for reference.

#### 4.2.1.1 Address Information

This format is used for all Customer Premise based addresses.

Field	Description	Example
sapr	(Optional) Address Number Prefix	<sapr value="3-" />
sano	(Required) Address Number	<sano value="146" />
sasf	(Optional) Address Number Suffix	<sasf value="1/2" />
sasd	(Optional) ENUM: N,W,S,E,NW,NE,SW,SE	<sasd value="N" />
sasn	(Required) Street Name	<sasn value="Easy" />
sath	(Optional) Street Thoroughfare	<sath value="ST" />
sass	(Optional) ENUM: N,W,S,E,NW,NE,SW,SE	<sass value="S" />
ld1	(Optional) ENUM: BLDG, WING, PIER	<ld1 value="BLDG" />
lv1	(Required if ld1 is set, Forbidden if not) Location Value 1	<lv1 value="7" />
ld2	(Required) ENUM: FL	<ld2 value="FL" />
Lv2	(Required) Location Value 2	<lv2 value="1" />



Ld3	(Optional) ENUM: APT, RM, LOT, SLIP, SUIT, UNIT	<ld3 value="SUIT" />
Lv3	(Required if ld1 is set, Forbidden if not) Location Value 3	<lv3 value="100" />
city	(Required)	<city value="Chicago" />
state	(Required) Two character state identifier	<state value="IL" />
zip	(Required) 5 digit Zip Code	<zip value="60616" />
comments	(Optional) Any additional information for this address	<comments value="This will be part of an MPLS network." />

#### 4.2.1.1.1 Example Address XML

```
<sano>4001</sano>
<sasn>Rodney Parham</sasn>
<sath>Rd</sath>
<ld2>FL</ld2>
<lv2>1</lv2>
<city>Little Rock</city>
<state>AR</state>
<zip>72212</zip>
```

#### 4.2.1.1.2 Extended Address Fields

Some Products require additional details for the address location. In those cases, the Address Information fields will be extended to include the extra additional fields. Valid handoff values can be determined using the Handoff Helper function.

Field	Description	Example
handoff	(Required on specified Products) Handoff Type	<handoff value="DSX1" />

#### 4.2.1.2 Customer Information

This data is used to convey additional information related to the quote that can be used by both the Windstream Carrier teams as well as the Customer when referencing the quote.

Field	Description	Example
contactEmail	(Required) This is the contact email to be used for this quote.	<contactEmail value="email@example.com" />
prevQuoteExistCircuit	(Optional)	<prevQuoteExistCircuit value="1234" />

	If there is a previous quote or Existing Circuit to reference it can be listed here.	
quoteRefId	(Optional)	<quoteRefId value="123456" />
	If the customer has an internal quote Reference ID it can be listed here.	
targetMrc	(Optional)	<targetMrc value="300.00" />
specialRequirements	A target Monthly Recurring Cost for the Quote. (Optional , False assumed as default)	<specialRequirements value="true" />
	This field is used to indicate if there are any special requirements for this Quote. Note selection this option will always return NONSTANDARD pricing results.  ENUM true, false	
saveQuote	(Optional, False assumed as default)	<saveQuote value="false" />
	This field is used to indicate whether the Quote should appear in the Carrier Web Portal as an open orderable quote. If selected the order will appear as it would if entered via the Web Portal. If not selected, it will be saved as archived, and can still be cloned from within the Portal if needed.  ENUM true, false	

### 4.2.1.2.1 Example Customer Information XML

```
<custInfo>
  <contactEmail>email@example.com</contactEmail>
  <prevQuoteExistCircuit>12345</prevQuoteExistCircuit>
  <quoteRefId>98765</quoteRefId>
  <saveQuote>>false</saveQuote>
  <specialRequirements>>false</specialRequirements>
  <targetMRC>300</targetMRC>
</custInfo>
```

### 4.2.1.3 Service Data

This data is used for the service information for the Quote. Note that for terms, a minimum of one and a maximum of three can be selected for any single quote. Note that for EOC/EOF, if only one is elected, only quotes for that facility type will be returned. If both or neither are selected, Quotes for the cheapest facility will be returned.

Field	Description	Example
businessName	(Required)  This lists the name of the business the quote is for.	<businessName value="Some Company" />
circuit	(Required)  The Circuit Type for the quote. Valid options can	<circuit value="DS1" />

	be found using the Helper function in section 4.1.3.	
bandwidth	(Required)	<bandwidth value="1.5" />
	The Circuit Type for the quote. Valid options can be found using the Helper function in section 4.1.4.	
term1yr	(Required)	<term1yr value="true" />
	ENUM: true, false	
term2yr	(Required)	<term1yr value="false" />
	ENUM: true, false	
term3yr	(Required)	<term1yr value="true" />
	ENUM: true, false	
term4yr	(Required)	<term1yr value="false" />
	ENUM: true, false	
term5yr	(Required)	<term1yr value="true" />
	ENUM: true, false	
eoc	(Optional if Circuit is Ethernet, otherwise forbidden)	<term1yr value="false" />
	Select for Ethernet over Copper	
	ENUM: true, false	
eof	(Optional if Circuit is Ethernet, otherwise forbidden)	<term1yr value="true" />
	Select for Ethernet over Fiber	
	ENUM: true, false	

### 4.2.1.3.1 Example Service Data XML

```

<serviceData>
  <businessName>Example Customer</businessName>
  <circuit>DS1</circuit>
  <bandwidth>1.5</bandwidth>
  <term1yr>true</term1yr>
  <term2yr>false</term2yr>
  <term3yr>true</term3yr>
  <term4yr>false</term4yr>
  <term5yr>true</term5yr>
</serviceData>

```

### 4.2.1.4 NNI Information

The NNI Request fields are primary used for Carrier Ethernet. This indicates the NNI the Tail will be built to, as well as additional comments for that NNI. The NNI will be used in place of the Customer Premise in the Location field.

Field	Description	Example
nni	(Required) This is the NNI. See Section 4.5.1. for valid values.	<nni value="ATLNGAMQ2RW" />
comments	(Optional) Any additional information for this location.	<comments value="This may require a new circuit as well" />

#### 4.2.1.4.1 Example NNI Information XML

```
<locationZ>
  <nni>ATLNGAMQ2RW</nni>
  <comments>Access Hours 6a-8p</comments>
</locationZ>
```

### 4.2.1.5 POP Information

The POP Request fields are primary used for DIA: POP. This indicates the POP the circuit will be built to, as well as additional information for that POP.

Field	Description	Example
uid	(Required) This is the UID. See Section 4.1.5. for valid values.	<uid value="12" />
loaCfa	(loaCfa or crossConnect is required) ENUM: true, false	<loaCfa value="true" />
crossConnect	(loaCfa or crossConnect is required) ENUM: true, false	<loaCfa value="true" />

#### 4.2.1.5.1 Example NNI Information XML

```
<locationA>
  <crossConnect>>false</crossConnect>
  <loaCfa>true</loaCfa>
  <uid>12</uid>
</locationA>
```

## 4.2.2 Quote Responses

The following Object types will be returned along with the Response Info discussed in section 3.2 to any Quote Requests. Note that if the Response Status is "FAIL" that some or all of these additional fields may not be returned.

### 4.2.2.1 Quote Data

This section returns general information about the Quote as well as confirming the values used to generate the quote.

Field	Description	Example
refid	This is the Windstream Carrier Reference ID for this quote.	<refid value="ABCD1234" />
salesExec	This is the account Manager assigned to handle this Quote.	<salesExec value="AM Name" />
validUntil	The quote will be valid and orderable until this date if the saveQuote option is selected.	<validUntil value="2014-12-18T12:29:53.270-06:00" />
productName	The Product that was quoted	<productName value="DS1 Tail" />
circuit	The Circuit that was quoted	<circuit value="DS1" />
bandwidth	The Bandwidth that was quoted	<bandwidth value="1.5" />
businessName	The Name of the business that was Quoted for	<businessName value="Some Company" />
contactEmail	The Contact Email for the quote	<contactEmail value="email@example.com" />
term1yr	Indicates if this Term was requested	<term1yr value="true" />
term2yr	Indicates if this Term was requested	<term1yr value="false" />
term3yr	Indicates if this Term was requested	<term1yr value="true" />
term4yr	Indicates if this Term was requested	<term1yr value="false" />
term5yr	Indicates if this Term was requested	<term1yr value="true" />
eoc	Indicates if EOC was requested	<term1yr value="false" />
eof	Indicated EOF was requested	<term1yr value="true" />
locationA	This lists the location requested in the quote. The data type depends on the quote. It will generally be the Address Type in Section 4.2.1.1 for Tail Quotes.	<locationA> ... </locationA>
locationZ	Location Z indicates the address information for the Z Location of the quote, if any. See Section 4.2.1.1 for examples.	<locationZ> ... </locationZ>
networkA	This indication the network information for location A. See Section 4.2.2.2 for more details.	<networkA> ... </networkA>
networkZ	This indication the network information for location Z, if any. See Section 4.2.2.2 for more details.	<networkZ> ... </networkZ>
notices	Any notice or legal information included with the quote will be included here. This field may appear multiple times, once per notice.	<notices value="Some Legal Disclaimers" />

### 4.2.2.1.1 Example Quote Data XML

```

<quoteData>
  <refid>NW9L6P64</refid>
  <salesExec>Account Manager Name</salesExec>
  <validUntil>2014-12-18T12:29:53.270-06:00</validUntil>
  <productName>DS1 Tail</productName>
  <circuitType>DS1</circuitType>
  <bandwidth>1.5</bandwidth>
  <businessName>API Test</businessName>
  <contactEmail>email@example.com</contactEmail>
  <term1yr>true</term1yr>
  <term2yr>>false</term2yr>
  <term3yr>true</term3yr>
  <term4yr>>false</term4yr>
  <term5yr>true</term5yr>
  <locationA>
    <sano>4001</sano>
    <sasn>Rodney Parham</sasn>
    <sath>Rd</sath>
    <ld2>FL</ld2>
    <lv2>1</lv2>
    <city>Little Rock</city>
    <state>AR</state>
    <zip>72212</zip>
  </locationA>
  <networkA>
    <cswc>HFESILWL</cswc>
    <lata>358</lata>
    <rateCenter>ROSELLE</rateCenter>
    <vendorCode></vendorCode>
    <npanxx>501228</npanxx>
  </networkA>
  <locationZ></locationZ>
  <networkZ></networkZ>
  <notices></notices>
</quoteData>

```

### 4.2.2.2 Network A / Z

This lists the network details for the location in the Quote. This will be populated independently as networkA and networkZ in the reply.

Field	Description	Example
cswc	This is the Serving Wire Center the respective location falls under.	<cswc value="HFESILWL" />
lata	The LATA of the respective location	<lata value="358" />
rateCenter	The Rate Center for the respective location.	<rateCenter value="ROSELLE" />
venderCode	The Vendor Code for the respective Location. This field may not always be populated.	<vendorCode value="71" />
npanxx	NPA NXX of the respective location	<npanxx value="123456" />

### 4.2.2.2.1 Network A / Z Example XML

```
<networkA>
  <cswc>HFESILWL</cswc>
  <lata>358</lata>
  <rateCenter>ROSELLE</rateCenter>
  <vendorCode></vendorCode>
  <npanxx>123456</npanxx>
</networkA>
```

### 4.2.2.3 Pricing Data

This lists the pricing returned for the Quote. The pricing data is a single field that may contain multiple Line Item fields. Each Line Item field lists the Product as well as the MRC and NRC values for the selected Terms. The unselected terms may be returned with no values.

Field	Description	Example
product	The Name of the product or line item for the Quote, such as MUX, Inter-region Fee, etc.	<cswc value="DS1 Tail" />
mrc1yr	The 1 Year Monthly Recurring Cost	<mrc1yr value="500" />
mrc2yr	The 2 Year Monthly Recurring Cost	<mrc2yr value="400" />
mrc3yr	The 3 Year Monthly Recurring Cost	<mrc3yr value="300" />
mrc4yr	The 4 Year Monthly Recurring Cost	<mrc4yr value="200" />
mrc5yr	The 5 Year Monthly Recurring Cost	<mrc5yr value="100" />
nrc1yr	The 1 Year One Time Non-Recurring Cost	<nrc1yr value="500" />
nrc2yr	The 2 Year One Time Non-Recurring Cost	<nrc1yr value="250" />
nrc3yr	The 3 Year One Time Non-Recurring Cost	<nrc1yr value="0" />
nrc4yr	The 4 Year One Time Non-Recurring Cost	<nrc1yr value="0" />
nrc5yr	The 5 Year One Time Non-Recurring Cost	<nrc1yr value="0" />

### 4.2.2.3.1 Pricing Data Example XML

```
<pricing>
  <lineItems>
    <product>DS1 Tail</product>
    <mrc1yr>500.0</mrc1yr>
    <mrc3yr>400.0</mrc3yr>
    <mrc5yr>300.0</mrc5yr>
    <nrc1yr>200.0</nrc1yr>
    <nrc3yr>100.0</nrc3yr>
    <nrc5yr>0.0</nrc5yr>
  </lineItems>
</pricing>
```

## 4.2.3 DS1 Agg Tail

This function is used for retrieving quotes for the DS1 Aggregation Tail product.

### 4.2.3.1 Location

Action	Helper
Interop URL	TBD
Production URL	https://api.windstreamwholesale.com/CPT/1.0/DS1AggTail
Production WSDL	https://api.windstreamwholesale.com/CPT/1.0/DS1AggTail?wsdl

### 4.2.3.2 DS1 Agg Tail Fields

The following fields are used for Quoting DS1 Agg Tail Products. Prices in the XML sample reply are not valid and used as examples only.

Field	Description	Example
userInfo	See Section 3.1.1	<userInfo> ... </userInfo>
serviceData	See Section 4.2.1.3	<serviceData> ... </serviceData>
customerInfo	See Section 4.2.1.2	<customerInfo> ... </customerInfo>
location	Customer Premise, See Section 4.2.1.1	<locationA> ... </locationA>

### 4.2.3.3 DS1 Agg Tail Example Request XML

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <soapenv:Body>
    <QuoteDS1AggTail xmlns="http://dslaggtail.quote.cpt.windstreamwholesale.com/">
      <arg0 xmlns="">
        <custInfo>
          <contactEmail>example@email.com</contactEmail>
          <prevQuoteExistCircuit>12345</prevQuoteExistCircuit>
          <quoteRefId>98765</quoteRefId>
          <saveQuote>false</saveQuote>
          <specialRequirements>false</specialRequirements>
          <targetMRC>300</targetMRC>
        </custInfo>
        <locationA>
          <sano>4001</sano>
          <sasn>Rodney Parham</sasn>
          <sath>Rd</sath>
          <ld2>FL</ld2>
          <lv2>1</lv2>
          <city>Little Rock</city>
          <state>AR</state>
          <zip>72212</zip>
        </locationA>
        <serviceData>
          <bandwidth>1.5</bandwidth>
          <businessName>API Test</businessName>
          <circuit>DS1</circuit>
          <term1yr>true</term1yr>
          <term2yr>false</term2yr>
          <term3yr>true</term3yr>
          <term4yr>false</term4yr>
        </serviceData>
      </arg0>
    </QuoteDS1AggTail>
  </soapenv:Body>
</soapenv:Envelope>
```



```

        <term5yr>true</term5yr>
    </serviceData>
    <userInfo>
        <password>$password</password>
        <username>$username</username>
    </userInfo>
</arg0>
</QuoteDS1AggTail>
</soapenv:Body>
</soapenv:Envelope>

```

#### 4.2.3.4 DS1 Agg Tail Example Reply XML

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:QuoteDS1AggTailResponse
xmlns:ns2="http://dslaggtail.quote.cpt.windstreamwholesale.com/">
      <return>
        <pricing>
          <lineItems>
            <mrcl1yr>500.0</mrcl1yr>
            <mrc2yr>0.0</mrc2yr>
            <mrc3yr>400.0</mrc3yr>
            <mrc4yr>0.0</mrc4yr>
            <mrc5yr>300.0</mrc5yr>
            <nrc1yr>300.0</nrc1yr>
            <nrc2yr>0.0</nrc2yr>
            <nrc3yr>0.0</nrc3yr>
            <nrc4yr>0.0</nrc4yr>
            <nrc5yr>0.0</nrc5yr>
            <product>DS1 Tail</product>
          </lineItems>
        </pricing>
        <quoteData>
          <bandwidth>1.5</bandwidth>
          <businessName>API Test</businessName>
          <circuitType>DS1</circuitType>
          <contactEmail>example@email.com</contactEmail>
          <eoc>>false</eoc>
          <eof>>false</eof>
          <locationA>
            <aai></aai>
            <city>Little Rock</city>
            <comments></comments>
            <ld1></ld1>
            <ld2>FL</ld2>
            <ld3></ld3>
            <lv1></lv1>
            <lv2>1</lv2>
            <lv3></lv3>
            <sano>4001</sano>
            <sapr></sapr>
            <sasd></sasd>
            <sasf></sasf>
            <sasn>Rodney Parham</sasn>
            <sass></sass>
            <sath>Rd</sath>
            <state>AR</state>
            <zip>72212</zip>
          </locationA>
          <locationZ>
            <aai></aai>
            <city>DALLAS</city>
            <comments></comments>
            <ld1></ld1>
            <ld2>FL</ld2>
            <ld3>SUIT</ld3>
            <lv1></lv1>

```

## Windstream Carrier Transport Quote API Communications Protocol (1,0)

---

```
<lv2>2</lv2>
<lv3>S201</lv3>
<sano>600</sano>
<sapr></sapr>
<sasd>N</sasd>
<sasf></sasf>
<sasn>PEARL</sasn>
<sass></sass>
<sath>ST</sath>
<state>TX</state>
<zip>75201</zip>
</locationZ>
<networkA>
  <cswc>LTRKARCA</cswc>
  <lata>528</lata>
  <npanxx>501202</npanxx>
  <rateCenter>LITTLE ROCK</rateCenter>
  <vendorCode></vendorCode>
</networkA>
<networkZ>
  <cswc>DLLSTXHMK00</cswc>
  <lata>552</lata>
  <npanxx>214220</npanxx>
  <rateCenter>DALLAS</rateCenter>
  <vendorCode></vendorCode>
</networkZ>
<notices>The following location has not yet been qualified.
Please work with your Windstream account team to qualify the location for service.</notices>
<productName>DS1 Tail</productName>
<refid>E7B5P283</refid>
<salesExec>Steve Kurek</salesExec>
<term1yr>true</term1yr>
<term2yr>false</term2yr>
<term3yr>true</term3yr>
<term4yr>false</term4yr>
<term5yr>true</term5yr>
<validUntil>2015-04-16T13:31:06.827-05:00</validUntil>
</quoteData>
<responseInfo>
  <message></message>
  <quoteStatus>STANDARD</quoteStatus>
  <respStatus>SUCCESS</respStatus>
</responseInfo>
</return>
</ns2:QuoteDS1AggTailResponse>
</S:Body>
</S:Envelope>
```

## 4.2.4 MPLS Agg Tail

This function is used for retrieving quotes for the MPLS Aggregation Tail product.

### 4.2.4.1 Location

Action	Helper
Interop URL	TBD
Production URL	https://api.windstreamwholesale.com/CPT/1.0/MPLSAggTail
Production WSDL	https://api.windstreamwholesale.com/CPT/1.0/MPLSAggTail?wsdl

### 4.2.4.2 MPLS Agg Tail Fields

The following fields are used for Quoting MPLS Agg Tail Products. Prices in the XML sample reply are not valid and used as examples only.

Field	Description	Example
userInfo	See Section 3.1.1	<userInfo> ... </userInfo>
serviceData	See Section 4.2.1.3	<serviceData> ... </serviceData>
customerInfo	See Section 4.2.1.2	<customerInfo> ... </customerInfo>
location	Customer Premise, See Section 4.2.1.1	<locationA> ... </locationA>

### 4.2.4.3 MPLS Agg Tail Example Request XML

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <soapenv:Body>
    <QuoteMPLSAggTail xmlns="http://mplsaggtail.quote.cpt.windstreamwholesale.com/">
      <arg0 xmlns="">
        <custInfo>
          <contactEmail>email@example.com</contactEmail>
          <prevQuoteExistCircuit>12345</prevQuoteExistCircuit>
          <quoteRefId>98765</quoteRefId>
          <saveQuote>false</saveQuote>
          <specialRequirements>false</specialRequirements>
          <targetMRC>300</targetMRC>
        </custInfo>
        <locationA>
          <sano>4001</sano>
          <sasn>Rodney Parham</sasn>
          <sath>Rd</sath>
          <ld2>FL</ld2>
          <lv2>1</lv2>
          <city>Little rock</city>
          <state>AR</state>
          <zip>72212</zip>
        </locationA>
        <serviceData>
          <bandwidth>100</bandwidth>
          <businessName>API Test</businessName>
          <circuit>ETHERNET</circuit>
          <eoc>true</eoc>
          <eof>true</eof>
          <term1yr>true</term1yr>
          <term2yr>false</term2yr>
        </serviceData>
      </arg0>
    </QuoteMPLSAggTail>
  </soapenv:Body>
</soapenv:Envelope>
```

```

        <term3yr>true</term3yr>
        <term4yr>>false</term4yr>
        <term5yr>true</term5yr>
    </serviceData>
    <userInfo>
        <password>$password</password>
        <username>$username</username>
    </userInfo>
</arg0>
</QuoteMPLSAggTail>
</soapenv:Body>
</soapenv:Envelope>

```

#### 4.2.4.4 MPLS Agg Tail Example Reply XML

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:QuoteMPLSAggTailResponse
      xmlns:ns2="http://mplsaggtail.quote.cpt.windstreamwholesale.com/">
      <return>
        <pricing>
          <lineItems>
            <mrc1yr>500.0</mrc1yr>
            <mrc2yr>0.0</mrc2yr>
            <mrc3yr>400.0</mrc3yr>
            <mrc4yr>0.0</mrc4yr>
            <mrc5yr>300.0</mrc5yr>
            <nrc1yr>300.0</nrc1yr>
            <nrc2yr>0.0</nrc2yr>
            <nrc3yr>0.0</nrc3yr>
            <nrc4yr>0.0</nrc4yr>
            <nrc5yr>0.0</nrc5yr>
            <product>MPLS Agg Tail</product>
          </lineItems>
        </pricing>
        <quoteData>
          <bandwidth>100</bandwidth>
          <businessName>API Test</businessName>
          <circuitType>ETHERNET</circuitType>
          <contactEmail>email@example.com</contactEmail>
          <eoc>>false</eoc>
          <eof>true</eof>
          <locationA>
            <aai></aai>
            <city>Little rock</city>
            <comments></comments>
            <ld1></ld1>
            <ld2>FL</ld2>
            <ld3></ld3>
            <lv1></lv1>
            <lv2>1</lv2>
            <lv3></lv3>
            <sano>4001</sano>
            <sapr></sapr>
            <sasd></sasd>
            <sasf></sasf>
            <sasn>Rodney Parham</sasn>
            <sass></sass>
            <sath>Rd</sath>
            <state>AR</state>
            <zip>72212</zip>
          </locationA>
          <locationZ>
            <aai></aai>
            <city></city>
            <comments></comments>
            <ld1></ld1>
            <ld2></ld2>
            <ld3></ld3>
          </locationZ>
        </quoteData>
      </return>
    </ns2:QuoteMPLSAggTailResponse>
  </S:Body>
</S:Envelope>

```

## Windstream Carrier Transport Quote API Communications Protocol (1,0)

---

```
<lv></lv1>
<lv2></lv2>
<lv3></lv3>
<sano></sano>
<sapr></sapr>
<sasd></sasd>
<sasf></sasf>
<sasn></sasn>
<sass></sass>
<sath></sath>
<state></state>
<zip></zip>
</locationZ>
<networkA>
  <cswc>LTRKARCA</cswc>
  <lata>528</lata>
  <npanxx>501202</npanxx>
  <rateCenter>LITTLEROCK</rateCenter>
  <vendorCode></vendorCode>
</networkA>
<networkZ>
  <cswc></cswc>
  <lata></lata>
  <npanxx></npanxx>
  <rateCenter></rateCenter>
  <vendorCode></vendorCode>
</networkZ>
<notices>The following location has not yet been qualified.
Please work with your Windstream account team to qualify the location for service.</notices>
<productName>MPLS Agg Tail</productName>
<refid>EDGKH74L</refid>
<salesExec>Steve Kurek</salesExec>
<term1yr>true</term1yr>
<term2yr>false</term2yr>
<term3yr>true</term3yr>
<term4yr>false</term4yr>
<term5yr>true</term5yr>
<validUntil>2015-04-16T13:47:05.104-05:00</validUntil>
</quoteData>
<responseInfo>
  <message></message>
  <quoteStatus>STANDARD</quoteStatus>
  <respStatus>SUCCESS</respStatus>
</responseInfo>
</return>
</ns2:QuoteMPLSAggTailResponse>
</S:Body>
</S:Envelope>
```

## 4.2.5 Ethernet Tail

This function is used for retrieving quotes for the Ethernet Tail product.

### 4.2.5.1 Location

Action	Helper
Interop URL	TBD
Production URL	https://api.windstreamwholesale.com/CPT/1.0/EthernetTail
Production WSDL	https://api.windstreamwholesale.com/CPT/1.0/EthernetTail?wsdl

### 4.2.5.2 Ethernet Tail Fields

The following fields are used for Quoting Ethernet Tail Products. Prices in the XML sample reply are not valid and used as examples only.

Field	Description	Example
userInfo	See Section 3.1.1	<userInfo> ... </userInfo>
serviceData	See Section 4.2.1.3	<serviceData> ... </serviceData>
customerInfo	See Section 4.2.1.2	<customerInfo> ... </customerInfo>
location	Customer Premise, See Section 4.2.1.1	<locationA> ... </locationA>

### 4.2.5.3 Ethernet Tail Example Request XML

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <soapenv:Body>
    <QuoteEthernetTail xmlns="http://ethernettail.quote.cpt.windstreamwholesale.com/">
      <arg0 xmlns="">
        <custInfo>
          <contactEmail>example@email.com</contactEmail>
          <prevQuoteExistCircuit>12345</prevQuoteExistCircuit>
          <quoteRefId>98765</quoteRefId>
          <saveQuote>false</saveQuote>
          <specialRequirements>false</specialRequirements>
          <targetMRC>300</targetMRC>
        </custInfo>
        <locationA>
          <sano>1060</sano>
          <sasd>W</sasd>
          <sasn>Addison</sasn>
          <sath>ST</sath>
          <ld2>FL</ld2>
          <lv2>1</lv2>
          <city>Chicago</city>
          <state>IL</state>
          <zip>60613</zip>
        </locationA>
        <locationZ>
          <nni>CHCGILDTHRC</nni>
        </locationZ>
        <serviceData>
          <bandwidth>10</bandwidth>
          <businessName>API Test</businessName>
          <circuit>ETHERNET</circuit>
        </serviceData>
      </arg0>
    </QuoteEthernetTail>
  </soapenv:Body>
</soapenv:Envelope>
```

```

        <eof>true</eof>
        <term1yr>true</term1yr>
        <term2yr>false</term2yr>
        <term3yr>true</term3yr>
        <term4yr>false</term4yr>
        <term5yr>true</term5yr>
    </serviceData>
    <userInfo>
        <password>$password</password>
        <username>$username</username>
    </userInfo>
</arg0>
</QuoteEthernetTail>
</soapenv:Body>
</soapenv:Envelope>

```

#### 4.2.5.4 Ethernet Tail Example Reply XML

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:QuoteEthernetTailResponse
xmlns:ns2="http://ethernettail.quote.cpt.windstreamwholesale.com/">
      <return>
        <pricing>
          <lineItems>
            <mrc1yr>500.0</mrc1yr>
            <mrc2yr>0.0</mrc2yr>
            <mrc3yr>400.0</mrc3yr>
            <mrc4yr>0.0</mrc4yr>
            <mrc5yr>300.0</mrc5yr>
            <nrc1yr>300.0</nrc1yr>
            <nrc2yr>0.0</nrc2yr>
            <nrc3yr>0.0</nrc3yr>
            <nrc4yr>0.0</nrc4yr>
            <nrc5yr>0.0</nrc5yr>
            <product>Ethernet Tail</product>
          </lineItems>
        </pricing>
        <quoteData>
          <bandwidth>10</bandwidth>
          <businessName>API Test</businessName>
          <circuitType>ETHERNET</circuitType>
          <contactEmail>example@email.com</contactEmail>
          <eof>true</eof>
          <eof>false</eof>
          <locationA>
            <aai></aai>
            <city>Chicago</city>
            <comments></comments>
            <ld1></ld1>
            <ld2>FL</ld2>
            <ld3></ld3>
            <lv1></lv1>
            <lv2>1</lv2>
            <lv3></lv3>
            <sano>1060</sano>
            <sapr></sapr>
            <sasd>W</sasd>
            <sasf></sasf>
            <sasn>Addison</sasn>
            <sass></sass>
            <sath>ST</sath>
            <state>IL</state>
            <zip>60613</zip>
          </locationA>
          <locationZ>
            <aai></aai>
            <city>Chicago</city>

```

## Windstream Carrier Transport Quote API Communications Protocol (1,0)

---

```
<comments></comments>
<ld1></ld1>
<ld2></ld2>
<ld3>SUIT</ld3>
<lv1></lv1>
<lv2></lv2>
<lv3>100.M09</lv3>
<sano>350</sano>
<sapr></sapr>
<sasd>E</sasd>
<sasf></sasf>
<sasn>Cermack</sasn>
<sass></sass>
<sath>RD</sath>
<state>IL</state>
<zip>60616</zip>
</locationZ>
<networkA>
  <cswc>CHCGILLW</cswc>
  <lata>358</lata>
  <npanxx>773244</npanxx>
  <rateCenter>CHICGOZN04</rateCenter>
  <vendorCode></vendorCode>
</networkA>
<networkZ>
  <cswc>CHCGILDTHRC</cswc>
  <lata></lata>
  <npanxx>0</npanxx>
  <rateCenter></rateCenter>
  <vendorCode></vendorCode>
</networkZ>
<notices>The following location has not yet been qualified.
Please work with your Windstream account team to qualify the location for service.</notices>
<productName>Ethernet Tail</productName>
<refid>CZU8PBFR</refid>
<salesExec>Steve Kurek</salesExec>
<term1yr>true</term1yr>
<term2yr>>false</term2yr>
<term3yr>true</term3yr>
<term4yr>>false</term4yr>
<term5yr>true</term5yr>
<validUntil>2015-04-16T14:28:55.983-05:00</validUntil>
</quoteData>
<responseInfo>
  <message></message>
  <quoteStatus>STANDARD</quoteStatus>
  <respStatus>SUCCESS</respStatus>
</responseInfo>
</return>
</ns2:QuoteEthernetTailResponse>
</S:Body>
</S:Envelope>
```



## 4.2.6 DIA: PREM

This function is used for retrieving quotes for the DIA Prem product.

### 4.2.6.1 Location

Action	Helper
Interop URL	TBD
Production URL	https://api.windstreamwholesale.com/CPT/1.0/DIAPrem
Production WSDL	https://api.windstreamwholesale.com/CPT/1.0/DIAPrem?wsdl

### 4.2.6.2 DIA: PREM Fields

The following fields are used for Quoting DIA Prem Products. Prices in the XML sample reply are not valid and used as examples only.

Field	Description	Example
userInfo	See Section 3.1.1	<userInfo> ... </userInfo>
serviceData	See Section 4.2.1.3	<serviceData> ... </serviceData>
customerInfo	See Section 4.2.1.2	<customerInfo> ... </customerInfo>
location	Customer Premise, See Section 4.2.1.1	<locationA> ... </locationA>

### 4.2.6.3 DIA: PREM Example Request XML

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <soapenv:Body>
    <QuoteDIAPrem xmlns="http://diaprem.quote.cpt.windstreamwholesale.com/">
      <arg0 xmlns="">
        <custInfo>
          <contactEmail>example@email.com</contactEmail>
          <prevQuoteExistCircuit>12345</prevQuoteExistCircuit>
          <quoteRefId>98765</quoteRefId>
          <saveQuote>false</saveQuote>
          <specialRequirements>false</specialRequirements>
          <targetMRC>300</targetMRC>
        </custInfo>
        <locationA>
          <sano>4001</sano>
          <sasn>Rodney Parham</sasn>
          <sath>Rd</sath>
          <ld2>FL</ld2>
          <lv2>1</lv2>
          <city>Little rock</city>
          <state>AR</state>
          <zip>72212</zip>
        </locationA>
        <serviceData>
          <bandwidth>100</bandwidth>
          <businessName>API Test</businessName>
          <circuit>ETHERNET</circuit>
          <eoc>true</eoc>
          <eof>true</eof>
          <termlyr>true</termlyr>
          <term2yr>false</term2yr>
        </serviceData>
      </arg0>
    </QuoteDIAPrem>
  </soapenv:Body>
</soapenv:Envelope>
```

```

        <term3yr>true</term3yr>
        <term4yr>>false</term4yr>
        <term5yr>true</term5yr>
    </serviceData>
    <userInfo>
        <password>$password</password>
        <username>$username</username>
    </userInfo>
</arg0>
</QuoteDIAPrem>
</soapenv:Body>
</soapenv:Envelope>

```

#### 4.2.6.4 DIA: PREM Example Reply XML

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:QuoteDIAPremResponse
xmlns:ns2="http://diaprem.quote.cpt.windstreamwholesale.com/">
      <return>
        <pricing>
          <lineItems>
            <mrc1yr>500.0</mrc1yr>
            <mrc2yr>0.0</mrc2yr>
            <mrc3yr>400.0</mrc3yr>
            <mrc4yr>0.0</mrc4yr>
            <mrc5yr>300.0</mrc5yr>
            <nrc1yr>300.0</nrc1yr>
            <nrc2yr>0.0</nrc2yr>
            <nrc3yr>0.0</nrc3yr>
            <nrc4yr>0.0</nrc4yr>
            <nrc5yr>0.0</nrc5yr>
            <product>DIA: PREM</product>
          </lineItems>
        </pricing>
        <quoteData>
          <bandwidth>100</bandwidth>
          <businessName>API Test</businessName>
          <circuitType>ETHERNET</circuitType>
          <contactEmail>example@email.com</contactEmail>
          <eoc>>false</eoc>
          <eof>true</eof>
          <locationA xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:type="ns2:addressHandoffType">
            <aai></aai>
            <city>Little Rock</city>
            <comments></comments>
            <ld1></ld1>
            <ld2>FL</ld2>
            <ld3></ld3>
            <lv1></lv1>
            <lv2>1</lv2>
            <lv3></lv3>
            <sano>4001</sano>
            <sapr></sapr>
            <sasd></sasd>
            <sasf></sasf>
            <sasn>Rodney Parham</sasn>
            <sass></sass>
            <sath>Rd</sath>
            <state>AR</state>
            <zip>72212</zip>
            <handoff>DS1X</handoff>
          </locationA>
          <locationZ>
            <aai></aai>
            <city></city>
            <comments></comments>
            <ld1></ld1>

```

```

        <ld2></ld2>
        <ld3></ld3>
        <lv1></lv1>
        <lv2></lv2>
        <lv3></lv3>
        <sano></sano>
        <sapr></sapr>
        <sasd></sasd>
        <sasf></sasf>
        <sasn></sasn>
        <sass></sass>
        <sath></sath>
        <state></state>
        <zip></zip>
    </locationZ>
    <networkA>
        <cswc>LTRKARCA</cswc>
        <lata>528</lata>
        <npanxx>501202</npanxx>
        <rateCenter>LITTLEROCK</rateCenter>
        <vendorCode></vendorCode>
    </networkA>
    <networkZ>
        <cswc></cswc>
        <lata></lata>
        <npanxx></npanxx>
        <rateCenter></rateCenter>
        <vendorCode></vendorCode>
    </networkZ>
    <notices>The following location has not yet been qualified.
Please work with your Windstream account team to qualify the location for
service.</notices><notices>Customer, at its own cost, shall provide collocation space and power
in applicable location(s) and access to such space, including any necessary easement and building
entrance rights to extend our network from the public rights of way into such
location(s).</notices>
        <productName>DIA: PREM</productName>
        <refid>G4P9R48V</refid>
        <salesExec>Steve Kurek</salesExec>
        <term1yr>true</term1yr>
        <term2yr>false</term2yr>
        <term3yr>true</term3yr>
        <term4yr>false</term4yr>
        <term5yr>true</term5yr>
        <validUntil>2015-04-16T13:48:50.523-05:00</validUntil>
    </quoteData>
    <responseInfo>
        <message></message>
        <quoteStatus>STANDARD</quoteStatus>
        <respStatus>SUCCESS</respStatus>
    </responseInfo>
    </return>
</ns2:QuoteDIAPremResponse>
</S:Body>
</S:Envelope>

```

## 4.2.7 DIA: POP

This function is used for retrieving quotes for the DIA POP product.

### 4.2.7.1 Location

Action	Helper
Interop URL	TBD
Production URL	<a href="https://api.windstreamwholesale.com/CPT/1.0/DIAPop">https://api.windstreamwholesale.com/CPT/1.0/DIAPop</a>
Production WSDL	<a href="https://api.windstreamwholesale.com/CPT/1.0/DIAPop?wsdl">https://api.windstreamwholesale.com/CPT/1.0/DIAPop?wsdl</a>

### 4.2.7.2 DIA: POP Fields

The following fields are used for Quoting DIA POP Products. Prices in the XML sample reply are not valid and used as examples only.

Field	Description	Example
userInfo	See Section 3.1.1	<userInfo> ... </userInfo>
serviceData	See Section 4.2.1.3	<serviceData> ... </serviceData>
customerInfo	See Section 4.2.1.2	<customerInfo> ... </customerInfo>
location	Customer Premise, See Section 4.2.1.1	<locationA> ... </locationA>

### 4.2.7.3 DIA: POP Example Request XML

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <soapenv:Body>
    <QuoteDIAPop xmlns="http://diapop.quote.cpt.windstreamwholesale.com/">
      <arg0 xmlns="">
        <custInfo>
          <contactEmail>example@email.com</contactEmail>
          <prevQuoteExistCircuit>12345</prevQuoteExistCircuit>
          <quoteRefId>98765</quoteRefId>
          <saveQuote>false</saveQuote>
          <specialRequirements>false</specialRequirements>
          <targetMRC>300</targetMRC>
        </custInfo>
        <locationA>
          <crossConnect>false</crossConnect>
          <loaCfa>true</loaCfa>
          <uid>12</uid>
        </locationA>
        <serviceData>
          <bandwidth>10</bandwidth>
          <businessName>API Test</businessName>
          <circuit>ETHERNET</circuit>
          <eoc>true</eoc>
          <eof>true</eof>
          <term1yr>true</term1yr>
          <term2yr>false</term2yr>
          <term3yr>true</term3yr>
          <term4yr>false</term4yr>
          <term5yr>true</term5yr>
        </serviceData>
        <userInfo>
          <password>$password</password>
          <username>$username</username>
        </userInfo>
      </arg0>
    </QuoteDIAPop>
  </soapenv:Body>
</soapenv:Envelope>
```

## 4.2.7.4 DIA: POP Example Reply XML

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:QuoteDIAPopResponse
      xmlns:ns2="http://diapop.quote.cpt.windstreamwholesale.com/">
      <return>
        <pricing>
          <lineItems>
            <mrc1yr>500.0</mrc1yr>
            <mrc2yr>0.0</mrc2yr>
            <mrc3yr>400.0</mrc3yr>
            <mrc4yr>0.0</mrc4yr>
            <mrc5yr>300.0</mrc5yr>
            <nrc1yr>300.0</nrc1yr>
            <nrc2yr>0.0</nrc2yr>
            <nrc3yr>0.0</nrc3yr>
            <nrc4yr>0.0</nrc4yr>
            <nrc5yr>0.0</nrc5yr>
            <product>DIA: POP</product>
          </lineItems>
        </pricing>
        <quoteData>
          <bandwidth>10</bandwidth>
          <businessName>API Test</businessName>
          <circuitType>ETHERNET</circuitType>
          <contactEmail>example@email.com</contactEmail>
          <eoc>>false</eoc>
          <eof>>false</eof>
          <locationA>
            <comments></comments>
            <crossConnect>>false</crossConnect>
            <loaCfa>>true</loaCfa>
            <uid>12</uid>
          </locationA>
          <networkA>
            <cswc>NLRKAR44</cswc>
            <lata>528</lata>
            <npanxx>501916</npanxx>
            <rateCenter>LITTLE ROCK</rateCenter>
            <vendorCode></vendorCode>
          </networkA>
          <notices>The following location has not yet been qualified.
Please work with your Windstream account team to qualify the location for
service.</notices><notices>Customer, at its own cost, shall provide collocation space and power
in applicable location(s) and access to such space, including any necessary easement and building
entrance rights to extend our network from the public rights of way into such
location(s).</notices>
          <productName>DIA: POP</productName>
          <refid>856288K9</refid>
          <salesExec>Steve Kurek</salesExec>
          <term1yr>>true</term1yr>
          <term2yr>>false</term2yr>
          <term3yr>>true</term3yr>
          <term4yr>>false</term4yr>
          <term5yr>>true</term5yr>
          <validUntil>2015-04-16T13:50:18.943-05:00</validUntil>
        </quoteData>
        <responseInfo>
          <message></message>
          <quoteStatus>STANDARD</quoteStatus>
          <respStatus>SUCCESS</respStatus>
        </responseInfo>
      </return>
    </ns2:QuoteDIAPopResponse>
  </S:Body>
</S:Envelope>

```

## 5 Document History

Date	Version	Author	Changes
2015-02-10	1.0	JWG	Initial 1.0 Release
2015-01-16	0.7	JWG	Removed NPANXX from Input, and returned in Network element. Added Ethernet Tail and DIA PREM/POP Products
2014-11-10	0.6.1	JWG	Updated MPLS and DS1 Agg Tail Examples
2014-10-23	0.6	JWG	Updated WSDL location and added Namespaces to examples
2014-09-18	0.5	JWG	Initial Document Creation