

 SMC<sup>3</sup>  
**RATEWARE®**  
XL

**User Guide**

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# 1 INTRODUCTION

The implementation of SMC<sup>3</sup>'s RateWare XL product enables your company to fully realize the advantage of a durable rating engine with a library of more than 4,000 data modules. This robust rating solution simplifies LTL and Density pricing projects and eliminates the costly activities of sourcing, programming and maintaining data from multiple carriers.

SMC<sup>3</sup> has recently introduced a new Service Oriented Architecture (SOA) driven RateWare<sup>®</sup> XL Web Service which allows your company to fully realize the advantage of a loosely coupled pricing solution.

Why should businesses implement RateWare XL?

- Supports easier integration
- Supports an extensive library of more than 4,000 transportation pricing data modules
- Supports the ability to apply discounts, minimum charges, and deficit rating during the shipment rating process
- Provides flexible rating methods that better suit your business needs such as freight bill auditing and rate comparison
- SMC<sup>3</sup> maintains rating engine and data modules to ensure postal code and pricing accuracy

## 1.1 *How to use this manual*

This manual is intended for technical users tasked with developing an interface to the RateWare XL service. While every effort is made to keep this manual current, the RateWare XL WSDL(s) will continue to be the definitive definition of operations, messages, and types.

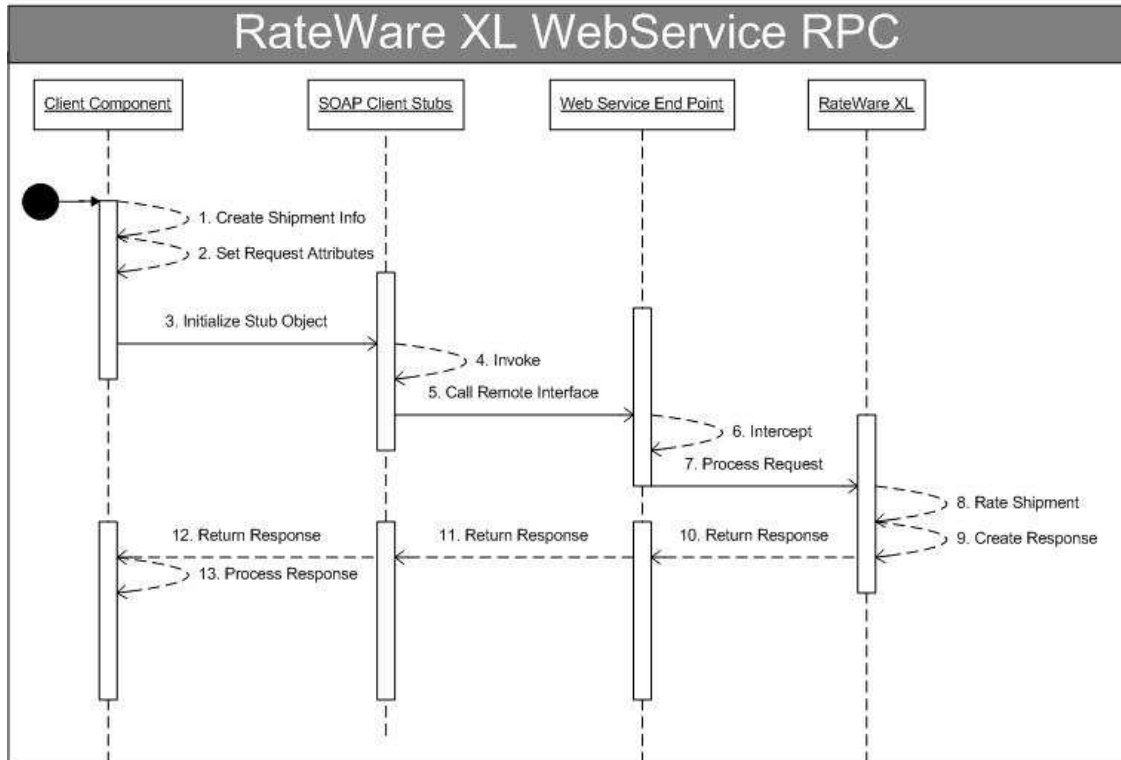
***Please contact SMC<sup>3</sup> for access to the RateWare XL WSDL as it pertains to this document.***

RateWare XL has implemented Message Transmission Optimization Mechanism (MTOM) for two (LTLRateShipmentMultipleOpt and DensityRateShipmentMultipleOpt) web method operations. The use of this standard allows improved efficiencies by allowing the transport of binary data. RateWareXL MTOM support is currently only available for customers developing in Java. This limitation is due to implementation incompatibilities between Java and .NET.

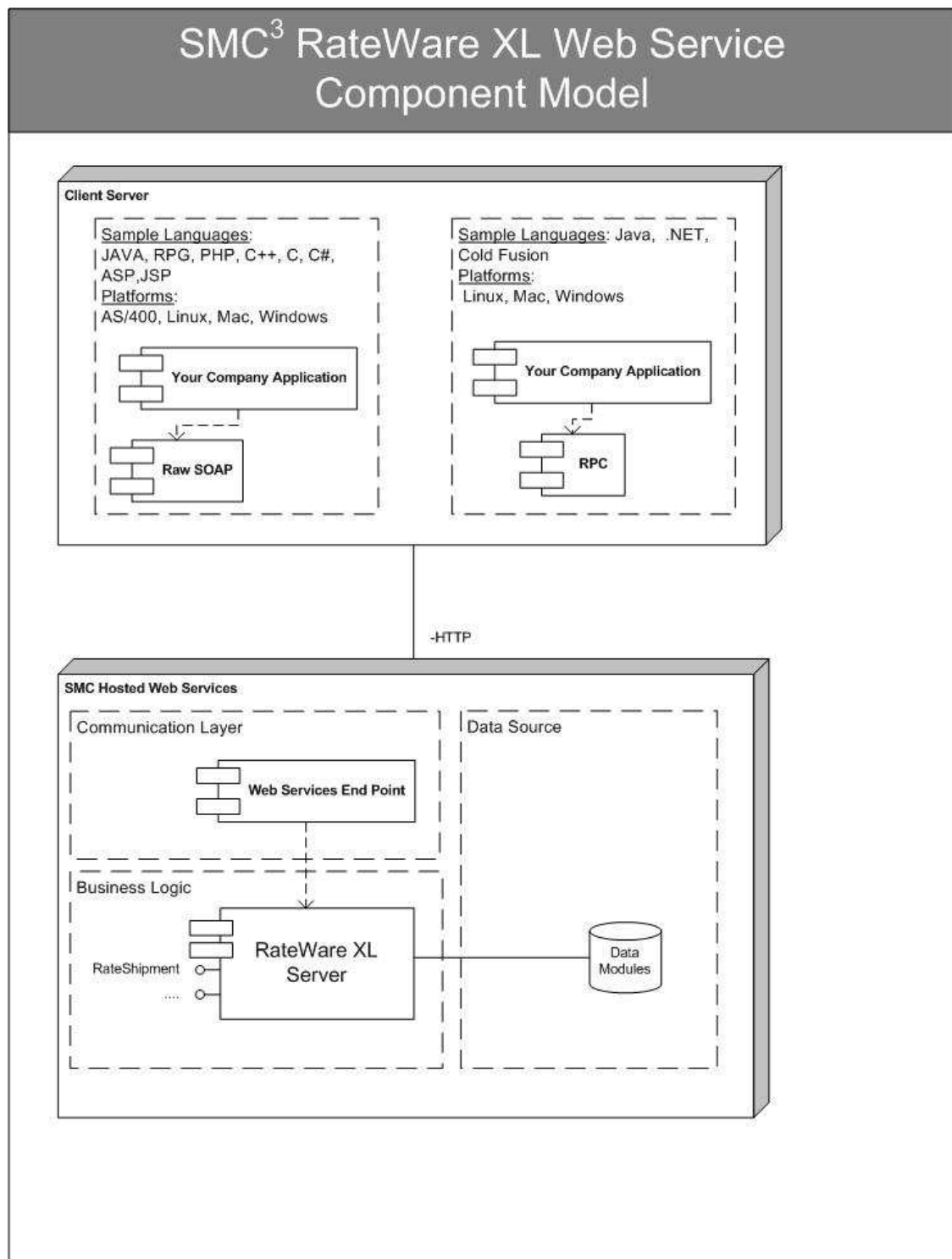
***Please contact SMC<sup>3</sup> for access the RateWare XL WSDL that provides support to both standard web methods and MTOM web methods.***

## 1.2 *RateWare XL Web Service RPC*

The workflow sequence for a typical rating transaction is as follows:

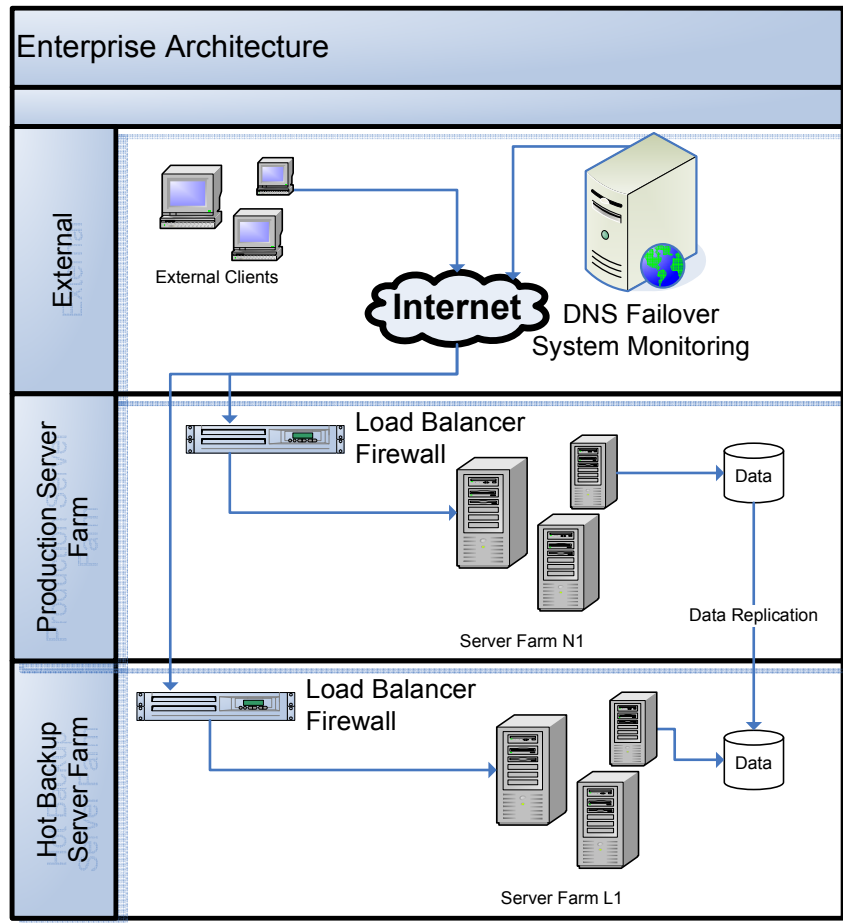


### 1.3 *Application Design Model*



## 1.4 **RateWare XL Production Environment**

SMC<sup>3</sup>'s production environment consists of server farms located within multiple hosting providers' facilities. An external monitoring service is utilized to ensure the production environment is externally accessible. The servers are instrumented and monitored 24/7/365 for optimal system performance and availability.



## 1.5 **System Requirements**

Any system capable of sending and receiving SOAP messages over HTTP may consume RateWare XL services.

## 1.6 **Fail-Over and Load Trafficking**

To ensure optimal uptime with our system please use the provided URL. When using the URL to access our system we can direct your traffic accordingly and provide the best possible service available. Using the IP directly will cause your system to fail when fail-overs and load trafficking occur.

## 1.7 **Bandwidth Requirements**

For critical TMS systems, you must provide quality service at all times, particularly during peak loads. We recommend provisioning a dedicated network pipe for accessing RateWare XL web methods such as a Symmetric T1 or CoLocation provider. Recommended bandwidth for your network pipe is listed in the Determine Your Bandwidth section.

## 1.8 **Determine Your Bandwidth**

This use case listed below will help you determine your bandwidth needs:

**Business:** 25 user TMS system needing pricing information from 10 primary LTL carriers in approximately 2 seconds.

**Use Case:** One user's rate comparison of 10 requests sent via internal TMS system to RateWare XL's LTLRateShipmentMultiple web method.

Approximate size of upload request object  
LTLRateShipmentMultipleRequest = 3.06 kb

Approximate size of download response object  
LTLRateShipmentMultipleResponse = 7.61 kb

### **Formulas for target network usage**

Upload Target Bandwidth Rate:  
 $(\text{Request object size}) * (\text{Number of concurrent user}) = (\text{Kb}) / (\text{number of seconds})$   
 $3.06 \text{ kb} * 25 \text{ users} = 76.5 \text{ kb} / 2 \text{ seconds} = 38.25\text{Kbps}$

Download Target Bandwidth Rate:  
 $(\text{Response object size}) * (\text{Number of concurrent user}) = (\text{Kb}) / (\text{number of seconds})$   
 $7.61 \text{ kb} * 25 = 190.25 \text{ kb} / 2 \text{ seconds} = 95.125\text{Kbps}$

For the above use case a business dedicated DSL service will be sufficient.

Typical Telco provider connection speeds are provided to help you select the appropriate connection speed.

| Connection Type | Upload Kbps | Download Kbps |
|-----------------|-------------|---------------|
| Business DSL    | 512         | 6144          |
| Symmetric T1    | 1536        | 1536          |
| CoLocation      | 10240       | 10240         |



## 1.9 RateWare XL Functional Overview

The table below identifies the services available within RateWareXL.

| Web Method                            | Purpose   |
|---------------------------------------|---|
| <b>isReady</b>                        | This service is used to determine if the web service is accepting rating requests.  |
| <b>AvailableTariffs</b>               | Entitlement to tariffs is controlled via the license key. AvailableTariffs returns a list of accessible tariffs that are associated with license key passed in the authentication token within the SOAP header.   |
| <b>LTLRateShipmentSimple</b>          | This service is used to rate a single shipment using NMFC class and weight. It <b>does not</b> support the application of discounts, minimum charge floor, and other pricing factors. Shipments requiring the application of these factors should utilize the LTLRateShipment web service.  |
| <b>LTLRateShipment</b>                | This service is used to rate a single shipment using NMFC class and weight. This service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.  |
| <b>LTLRateShipmentMultiple</b>        | This service is used to rate multiple shipments in a single request using NMFC class and weight. The service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.  |
| <b>LTLRateShipmentMultipleOpt</b>     | This service is used to rate multiple shipments using binary input. The service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.   |
| <b>LTLPointList</b>                   | This service is used to retrieve a list of points. This request is used to resolve error 60 or 70 in an LTLRateShipmentSimple, LTLRateShipment, or LTLRateShipmentMultiple request.   |
| <b>DensityRateShipmentSimple</b>      | This service is used to rate a single shipment using density and weight. It <b>does not</b> support the application of discounts, minimum charge floor, and other pricing factors. Shipments requiring the application of these factors should utilize the DensityRateShipment web service. |
| <b>DensityRateShipment</b>            | This service is used to rate a single shipment using density and weight. This service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.   |
| <b>DensityRateShipmentMultiple</b>    | This service is used to rate multiple shipments in a single request using density and weight. The service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.   |
| <b>DensityRateShipmentMultipleOpt</b> | This service is used to rate multiple density shipments using binary input. The service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.   |
| <b>LinearRateShipmentSimple</b>       | This service is used to rate a single shipment using linear dimensions. It <b>does not</b> support the application of discounts, minimum charge floor, and other pricing factors. Shipments requiring the application of these factors should utilize the LinearRateShipment web service.   |
| <b>LinearRateShipment</b>             | This service is used to rate a single shipment using linear dimensions. This service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.  |
| <b>LinearRateShipmentMultiple</b>     | This service is used to rate multiple shipments in a single request using linear dimensions. The service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.  |
| <b>LinearRateShipmentMultipleOpt</b>  | This service is used to rate multiple shipments using binary input. The service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.   |

## 1.10 **SDK**

Our SDK is provided in the FTP link below. The SDK provides samples in various coding languages and includes our latest user guides.

If you have any implementation questions please contact SMC<sup>3</sup> Technical Support at support@smc3.com or 800-272-3425.

### **SDK Instructions**

ftp site (ftp://sdk:sdkpass@prod3.smc3.com).

If you are using IE 7 or higher, please follow the instruction below:

1. *Open My Computer*
2. *Copy/paste the link provided into the My Computer address bar*
3. *Press Enter – this will open the SMC<sup>3</sup> FTP site.*

## 1.11 **Authentication**

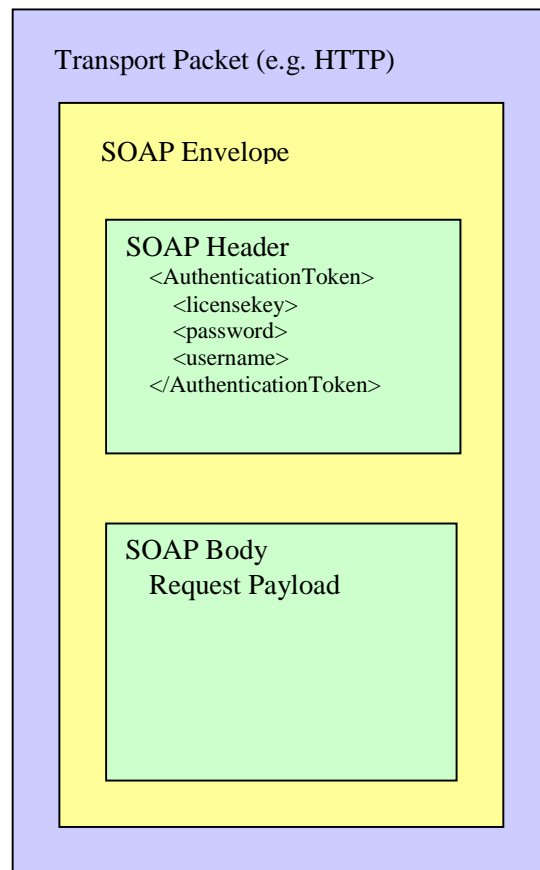
RateWare XL performs authentication for every service request received. This requires the service consumer to pass an authentication token within the SOAP Header.

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:web="http://webservices.smc.com">
  <soapenv:Header>
    <web:AuthenticationToken>
      <web:licenseKey>licensekey</web:licenseKey>
      <web:password>password</web:password>
      <web:username>username</web:username>
    </web:AuthenticationToken>
  </soapenv:Header>
  <soapenv:Body>
  </soapenv:Body>
</soapenv:Envelope>
```

sample

A logical representation of an inbound message to RateWare XL appears below.



## 2 RATEWARE XL WEB SERVICES

### 2.1 isReady

#### 2.1.1 Description

This service is used to determine if the web service is accepting rating requests.

#### 2.1.2 Input

XML Sample (Please see Section 1.1 concerning limitations of this XML Prototype)

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:web="http://webservices.smc.com">
  <soapenv:Header>
    <web:AuthenticationToken>
      <web:licenseKey> string </web:licenseKey>
      <web:password> string </web:password>
      <web:username> string </web:username>
    </web:AuthenticationToken>
  </soapenv:Header>
  <soapenv:Body>
    <web:isReady/>
  </soapenv:Body>
</soapenv:Envelope>
```

#### IsReadyRequest

| Argument | Type | Required/Optional | Description |
|----------|------|-------------------|-------------|
| n/a      |      |                   |             |

#### 2.1.3 Output

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soap:Body>
    <ns1:isReadyResponse xmlns:ns1="http://webservices.smc.com">
      <ns1:out> boolean </ns1:out>
    </ns1:isReadyResponse>
  </soap:Body>
</soap:Envelope>
```

#### IsReadyResponse

| Return Value | Type    | Returned | Description   |
|--------------|---------|----------|---|
| n/a          | boolean | Always   | Returns "true" if the web service is accepting rating requests and "false" if not accepting rating requests |

## 2.2 AvailableTariffs

### 2.2.1 Description

AvailableTariffs returns a list of accessible tariffs that are available on the system and associated with license key passed in the authentication token within the SOAP header.

### 2.2.2 Input

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:web="http://webservices.smc.com">
  <soapenv:Header>
    <web:AuthenticationToken>
      <web:licenseKey> string </web:licenseKey>
      <web:password> string </web:password>
      <web:username> string </web:username>
    </web:AuthenticationToken>
  </soapenv:Header>
  <soapenv:Body>
    <web:AvailableTariffs/>
  </soapenv:Body>
</soapenv:Envelope>
```

sample

### AvailableTariffsRequest

| Argument | Type | Required/Optional | Description |
|----------|------|-------------------|-------------|
| n/a      |      |                   |             |

### 2.2.3 Output

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soap:Body>
    <ns1:AvailableTariffsResponse xmlns:ns1="http://webservices.smc.com">
      <ns1:out>
        <ns2:DataModule xmlns:ns2="http://datamodule.products.smc.com">
          <description xmlns="http://datamodule.products.smc.com"> string </description>
          <effectiveDate xmlns="http://datamodule.products.smc.com"> string </effectiveDate>
          <productNumber xmlns="http://datamodule.products.smc.com"> string -RWM</productNumber>
          <release xmlns="http://datamodule.products.smc.com"> string </release>
          <tariffName xmlns="http://datamodule.products.smc.com"> string </tariffName>
        </ns2:DataModule>
      </ns1:out>
    </ns1:AvailableTariffsResponse>
  </soap:Body>
</soap:Envelope>
```

sample

#### AvailableTariffsResponse

| Return Value                     | Type                 | Returned | Description  |
|----------------------------------|----------------------|----------|--|
| <b>DataModule</b>                | complex (repeatable) | Always   | Zero or more repetitions of Tariff Name, Effective Date, Release, Description and Product Number |
| DataModule. <b>tariffName</b>    | string               | Always   | Tariff name (8 characters)   |
| DataModule. <b>effectiveDate</b> | string               | Always   | Tariff Effective Date (CCYYMMDD)   |
| DataModule. <b>release</b>       | string               | Always   | Data module release number   |
| DataModule. <b>description</b>   | string               | Always   | Data module Description  |
| DataModule. <b>productNumber</b> | string               | Always   | Data module Identification number (SMC <sup>3</sup> Internal number)                             |

## 2.3 LTLRateShipmentSimple

### 2.3.1 Description

This service is used to rate a single shipment using NMFC class and weight. It **does not** support the application of discounts, minimum charge floor, and other pricing factors. Shipments requiring the application of these factors should utilize the LTLRateShipment web service.

### 2.3.2 Input

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:web="http://webservices.smc.com" xmlns:web1="http://web.ltl.smc.com">
  <soapenv:Header>
    <web:AuthenticationToken>
      <web:licenseKey> string </web:licenseKey>
      <web:password> string </web:password>
      <web:username> string </web:username>
    </web:AuthenticationToken>
  </soapenv:Header>
  <soapenv:Body>
    <web:LTLRateShipmentSimple>
      <web:LTLRateShipmentSimpleRequest>
        <web1:destinationCountry> string </web1:destinationCountry>
        <web1:destinationPostalCode> string </web1:destinationPostalCode>
        <web1:details>
          <!--Zero or more repetitions:-->
          <web1:LTLRequestDetail>
            <web1:nmfcClass> string </web1:nmfcClass>
            <web1:weight> string </web1:weight>
          </web1:LTLRequestDetail>
        </web1:details>
        <web1:originCountry> string </web1:originCountry>
        <web1:originPostalCode> string </web1:originPostalCode>
        <web1:shipmentDateCCYYMMDD> string </web1:shipmentDateCCYYMMDD>
        <web1:shipmentID> string </web1:shipmentID>
        <web1:tariffName> string </web1:tariffName>
      </web:LTLRateShipmentSimpleRequest>
    </web:LTLRateShipmentSimple>
  </soapenv:Body>
</soapenv:Envelope>
```

sample

### LTLRateShipmentSimpleRequest

| Argument                                 | Type   | Required / Optional | Description  |
|--|--------|---------------------|--|
| LTLRateShipmentSimpleRequest .shipmentID | string | Optional            | Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters) |
| LTLRateShipmentSimpleRequest .tariffName | string | Required            | Tariff name (8 characters)   |

(LTLRateShipmentSimple Request Continued)

|  |                      |          |   |
|--|----------------------|----------|---|
| LTLRateShipmentSimpleRequest<br>.shipmentDateCCYYMMDD  | string               | Required | Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| LTLRateShipmentSimpleRequest<br>.originPostalCode      | string               | Required | Origin Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.  |
| LTLRateShipmentSimpleRequest<br>.destinationPostalCode | string               | Required | Destination Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.   |
| LTLRateShipmentSimpleRequest<br>.originCountry         | string               | Required | Origin Country: USA, MEX, CAN (3 alpha)   |
| LTLRateShipmentSimpleRequest<br>.destinationCountry    | string               | Required | Destination Country: USA, MEX, CAN (3 alpha)  |
| LTLRateShipmentSimpleRequest<br>.details               | complex (repeatable) | Required | Zero or more repetitions of NMFC Class and Weight   |
| LTLRateShipmentSimpleRequest<br>.details.nmfcClass     | string               | Required | The NMFC Class of the specified shipment line.  |
| LTLRateShipmentSimpleRequest<br>.details.weight        | string               | Required | The weight for the specified shipment line (whole number)   |

### 2.3.3 Output

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soap:Body>
    <ns1:LTLRateShipmentSimpleResponse xmlns:ns1="http://webservices.smc.com">
      <ns1:LTLRateShipmentSimpleResponse>
        <destinationCountry xmlns="http://web.ltl.smc.com"> string </destinationCountry>
        <destinationPostalCode xmlns="http://web.ltl.smc.com"> string </destinationPostalCode>
        <!--Zero or more repetitions:-->
        <details xmlns="http://web.ltl.smc.com">
          <LTLResponseDetail>
            <charge/> string </charge>
            <error> string </error>
            <nmfcClass> string </nmfcClass>
            <rate/> string </rate>
            <weight> string </weight>
          </LTLResponseDetail>
        </details>
        <effectiveDate xmlns="http://web.ltl.smc.com"/>
        <errorCode xmlns="http://web.ltl.smc.com"> string </errorCode>
        <originCountry xmlns="http://web.ltl.smc.com"> string </originCountry>
        <originPostalCode xmlns="http://web.ltl.smc.com"> string </originPostalCode>
        <shipmentDateCCYYMMDD xmlns="http://web.ltl.smc.com"> string </shipmentDateCCYYMMDD>
        <shipmentID xmlns="http://web.ltl.smc.com"> string </shipmentID>
        <tariffName xmlns="http://web.ltl.smc.com"> string </tariffName>
        <totalCharge xmlns="http://web.ltl.smc.com"> string </totalCharge>
      </ns1:LTLRateShipmentSimpleResponse>
    </ns1:LTLRateShipmentSimpleResponse>
  </soap:Body>
</soap:Envelope>
```

sample



## LTLRateShipmentSimpleResponse

*\* indicates passed in the request*

| Return Value   | Type                 | Returned    | Description  |
|--|----------------------|-------------|--|
| LTLRateShipmentSimpleResponse<br><b>.totalCharge</b>           | string               | Always      | The NET charge for the shipment (2 decimal places)   |
| LTLRateShipmentSimpleResponse<br><b>.destinationPostalCode</b> | string               | Always      | *Destination Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.   |
| LTLRateShipmentSimpleResponse<br><b>.destinationCountry</b>    | string               | Always      | *Destination Country: USA, MEX, CAN (3 alpha)  |
| LTLRateShipmentSimpleResponse<br><b>.tariffName</b>            | string               | Always      | *Tariff name (8 characters)  |
| LTLRateShipmentSimpleResponse<br><b>.effectiveDate</b>         | string               | Always      | Tariff Effective Date (CCYYMMDD)   |
| LTLRateShipmentSimpleResponse<br><b>.shipmentID</b>            | string               | Conditional | *Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)  |
| LTLRateShipmentSimpleResponse<br><b>.errorCode</b>             | string               | Conditional | Returns code only if error exists.   |
| LTLRateShipmentSimpleResponse<br><b>.shipmentDateCCYYMMDD</b>  | string               | Always      | *Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| LTLRateShipmentSimpleResponse<br><b>.details</b>               | complex (repeatable) | Always      | Zero or more repetitions of Rate, Charge, Error, NMFC Class and Weight   |
| LTLRateShipmentSimpleResponse<br><b>.details.rate</b>          | string               | Always      | The rate for the specified shipment line (2 decimal places)  |
| LTLRateShipmentSimpleResponse<br><b>.details.charge</b>        | string               | Always      | The undiscounted charge for the shipment line (2 decimal places)   |
| LTLRateShipmentSimpleResponse<br><b>.details.error</b>         | string               | Conditional | Returns code only if error exists.   |
| LTLRateShipmentSimpleResponse<br><b>.details.nmfcClass</b>     | string               | Always      | *The NMFC Class of the specified shipment line.  |
| LTLRateShipmentSimpleResponse<br><b>.details.weight</b>        | string               | Always      | *The weight for the specified shipment line (whole number)   |

## 2.4 LTLRateShipment

### 2.4.1 Description

This service is used to rate a single shipment using NMFC class and weight. This service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.

## 2.4.2 Input

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:web="http://webservices.smc.com" xmlns:web1="http://web.ltl.smc.com">
  <soapenv:Header>
    <web:AuthenticationToken>
      <web:licenseKey> string </web:licenseKey>
      <web:password> string </web:password>
      <web:username> string </web:username>
    </web:AuthenticationToken>
  </soapenv:Header>
  <soapenv:Body>
    <web:LTLRateShipment>
      <web:LTLRateShipmentRequest>
        <web1:LTL_Surcharge> string </web1:LTL_Surcharge>
        <web1:TL_Surcharge> string </web1:TL_Surcharge>
        <web1:destinationCity> string </web1:destinationCity>
        <web1:destinationCountry> string </web1:destinationCountry>
        <web1:destinationPostalCode> string </web1:destinationPostalCode>
        <web1:destinationState> string </web1:destinationState>
        <web1:details>
          <!--Zero or more repetitions-->
          <web1:LTLRequestDetail>
            <web1:nmfcClass> string </web1:nmfcClass>
            <web1:weight> string </web1:weight>
          </web1:LTLRequestDetail>
        </web1:details>
        <web1:discountApplication> string </web1:discountApplication>
        <web1:mcDiscount> string </web1:mcDiscount>
        <web1:orgDestToGateWayPointFlag> string </web1:orgDestToGateWayPointFlag>
        <web1:originCity> string </web1:originCity>
        <web1:originCountry> string </web1:originCountry>
        <web1:originPostalCode> string </web1:originPostalCode>
        <web1:originState> string </web1:originState>
        <web1:rateAdjustmentFactor> string </web1:rateAdjustmentFactor>
        <web1:shipmentDateCCYYMMDD> string </web1:shipmentDateCCYYMMDD>
        <web1:shipmentID> string </web1:shipmentID>
        <web1:stopAlternationWeight> string </web1:stopAlternationWeight>
        <web1:surchargeApplication> string </web1:surchargeApplication>
        <web1:tariffName> string </web1:tariffName>
        <web1:useDiscounts> string </web1:useDiscounts>
        <web1:useSingleShipmentCharges> string </web1:useSingleShipmentCharges>
        <web1:userMinimumChargeFloor> string </web1:userMinimumChargeFloor>
        <web1:weightBreak_Discount_1> string </web1:weightBreak_Discount_1>
        <web1:weightBreak_Discount_10> string </web1:weightBreak_Discount_10>
        <web1:weightBreak_Discount_11> string </web1:weightBreak_Discount_11>
        <web1:weightBreak_Discount_2> string </web1:weightBreak_Discount_2>
        <web1:weightBreak_Discount_3> string </web1:weightBreak_Discount_3>
        <web1:weightBreak_Discount_4> string </web1:weightBreak_Discount_4>
        <web1:weightBreak_Discount_5> string </web1:weightBreak_Discount_5>
        <web1:weightBreak_Discount_6> string </web1:weightBreak_Discount_6>
        <web1:weightBreak_Discount_7> string </web1:weightBreak_Discount_7>
        <web1:weightBreak_Discount_8> string </web1:weightBreak_Discount_8>
        <web1:weightBreak_Discount_9> string </web1:weightBreak_Discount_9>
      </web:LTLRateShipmentRequest>
    </web:LTLRateShipment>
  </soapenv:Body>
</soapenv:Envelope>
```

sample

## LTLRateShipmentRequest

| Argument   | Type   | Required/<br>Optional | Description   |
|--|--------|-----------------------|---|
| LTLRateShipmentRequest<br><b>.shipmentDateCCYYMMDD</b>     | string | Required              | Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| LTLRateShipmentRequest<br><b>.originCountry</b>            | string | Required              | Origin Country: USA, MEX, CAN (3 alpha)   |
| LTLRateShipmentRequest<br><b>.originPostalCode</b>         | string | Required              | Origin Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.  |
| LTLRateShipmentRequest<br><b>.originCity</b>               | string | Optional              | Origin City (Maximum of 60 ascii characters)  |
| LTLRateShipmentRequest<br><b>.originState</b>              | string | Optional              | Origin State (maximum of 2 ascii characters; must comply with associated postal code)   |
| LTLRateShipmentRequest<br><b>.destinationCountry</b>       | string | Required              | Destination Country: USA, MEX, CAN (3 alpha)  |
| LTLRateShipmentRequest<br><b>.destinationPostalCode</b>    | string | Required              | Destination Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.   |
| LTLRateShipmentRequest<br><b>.destinationCity</b>          | string | Optional              | Destination City (Maximum of 60 ascii characters)   |
| LTLRateShipmentRequest<br><b>.destinationState</b>         | string | Optional              | Destination State (maximum of 2 ascii characters; must comply with associated postal code)  |
| LTLRateShipmentRequest<br><b>.useSingleShipmentCharges</b> | string | Optional              | (Y/N); "N" indicates the system should rate the bill as a multiple shipment. "Y" indicates the system should rate the bill as a single shipment. This field is only applicable when the shipment uses a tariff that uses single shipment charges. The default for this field is "N".  |
| LTLRateShipmentRequest<br><b>.rateAdjustmentFactor</b>     | string | Optional              | A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 (Maximum value of 9.9999)   |
| LTLRateShipmentRequest<br><b>.useDiscounts</b>             | string | Optional              | (Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| LTLRateShipmentRequest<br><b>.discountApplication</b>      | string | Optional              | R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".  |
| LTLRateShipmentRequest<br><b>.weightBreak_Discount_1</b>   | string | Optional              | Weightbreak Discount 1 (Maximum value of 99.99)   |
| LTLRateShipmentRequest<br><b>.weightBreak_Discount_2</b>   | string | Optional              | Weightbreak Discount 2 (Max value of 99.99)   |
| LTLRateShipmentRequest<br><b>.weightBreak_Discount_3</b>   | string | Optional              | Weightbreak Discount 3 (Max value of 99.99)   |
| LTLRateShipmentRequest<br><b>.weightBreak_Discount_4</b>   | string | Optional              | Weightbreak Discount 4 (Max value of 99.99)   |
| LTLRateShipmentRequest<br><b>.weightBreak_Discount_5</b>   | string | Optional              | Weightbreak Discount 5 (Max value of 99.99)   |
| LTLRateShipmentRequest<br><b>.weightBreak_Discount_6</b>   | string | Optional              | Weightbreak Discount 6 (Max value of 99.99)   |
| LTLRateShipmentRequest<br><b>.weightBreak_Discount_7</b>   | string | Optional              | Weightbreak Discount 7 (Max value of 99.99)   |
| LTLRateShipmentRequest<br><b>.weightBreak_Discount_8</b>   | string | Optional              | Weightbreak Discount 8 (Max value of 99.99)   |

*(LTLRateShipment Input Continued)*

|   |                      |          |  |
|---|----------------------|----------|--|
| LTLRateShipmentRequest<br><b>.weightBreak_Discount_9</b>    | string               | Optional | Weightbreak Discount 9 (Max value of 99.99)  |
| LTLRateShipmentRequest<br><b>.weightBreak_Discount_10</b>   | string               | Optional | Weightbreak Discount 10 (Max value of 99.99)   |
| LTLRateShipmentRequest<br><b>.weightBreak_Discount_11</b>   | string               | Optional | Weightbreak Discount 11 (Max value of 99.99)   |
| LTLRateShipmentRequest<br><b>.mcDiscount</b>                | string               | Optional | Minimum Charge Discount (Max value of 99.99)   |
| LTLRateShipmentRequest<br><b>.userMinimumChargeFloor</b>    | string               | Optional | Minimum floor charge entered by user. (Max value of 99999.99)  |
| LTLRateShipmentRequest<br><b>.LTL_Surcharge</b>             | string               | Optional | LTL surcharge percentage (Max value 99.99)   |
| LTLRateShipmentRequest<br><b>.TL_Surcharge</b>              | string               | Optional | TL surcharge percentage (Max value 99.99)  |
| LTLRateShipmentRequest<br><b>.surchargeApplication</b>      | string               | Optional | G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges   |
| LTLRateShipmentRequest<br><b>.orgDestToGateWayPointFlag</b> | string               | Optional | <i>Internal Use Only</i>   |
| LTLRateShipmentRequest<br><b>.shipmentID</b>                | string               | Optional | Shipment ID; Use any combination of letters and numbers to identify the shipment. (Max of 20 ascii characters) |
| LTLRateShipmentRequest<br><b>.tariffName</b>                | string               | Required | Tariff name (8 characters)   |
| LTLRateShipmentRequest<br><b>.stopAlternationWeight</b>     | string               | Optional | Max weight to stop the rating alternation. (Max value of 999999)   |
| LTLRateShipmentRequest<br><b>.details</b>                   | complex (repeatable) | Required | Zero or more repetitions of NMFC Class and Weight. (Max of 100 detail lines)                                   |
| LTLRateShipmentRequest<br><b>.details.nmfcClass</b>         | string               | Required | The NMFC Class of the specified shipment line.   |
| LTLRateShipmentRequest<br><b>.details.weight</b>            | string               | Required | The weight for the specified shipment line. (Max value of 999999)  |

## Quick Tip

Enter the discount amount to be applied to each weight break during the rating process. Weight breaks are governed by each individual tariff, but generally reflect the standard weight break structure below:

Weight break 1 = L5C - Applicable on LTL shipments weighing less than 500 lbs.  
Weight break 2 = M5C - Applicable on LTL shipments weighing 500 lbs. or more, but less than 1,000 lbs.  
Weight break 3 = M1M - Applicable on LTL shipments weighing 1,000 lbs. or more, but less than 2,000 lbs.  
Weight break 4 = M2M - Applicable on LTL shipments weighing 2,000 lbs. or more, but less than 5,000 lbs.  
Weight break 5 = M5M - Applicable on LTL shipments weighing 5,000 lbs. or more, but less than 10,000 lbs.  
Weight break 6 = M10M - Applicable on LTL shipments weighing 10,000 lbs. or more, but less than 20,000 lbs.  
Weight break 7 = M20M - Applicable on TL shipments weighing 20,000 lbs. or more, but less than 30,000 lbs.  
Weight break 8 = M30M - Applicable on TL shipments weighing 30,000 lbs. or more, but less than 40,000 lbs.  
Weight break 9 = M40M - Applicable on TL shipments weighing 40,000 lbs. or more.

### 2.4.3 Output

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soap:Body>
    <ns1:LTLRateShipmentResponse xmlns:ns1="http://webservices.smc.com">
      <ns1:LTLRateShipmentResponse>
        <LHGrossCharge xmlns="http://web.ltl.smc.com"> string </LHGrossCharge>
        <LTL_Surcharge xmlns="http://web.ltl.smc.com"> string </LTL_Surcharge>
        <RBNO xmlns="http://web.ltl.smc.com"/>
        <TL_Surcharge xmlns="http://web.ltl.smc.com"> string </TL_Surcharge>
        <absoluteMCFloor xmlns="http://web.ltl.smc.com"> string </absoluteMCFloor>
        <actualWgt xmlns="http://web.ltl.smc.com"> string </actualWgt>
        <billedWgt xmlns="http://web.ltl.smc.com"> string </billedWgt>
        <deficitCharge xmlns="http://web.ltl.smc.com"> string </deficitCharge>
        <deficitRate xmlns="http://web.ltl.smc.com"> string </deficitRate>
        <deficitWeight xmlns="http://web.ltl.smc.com"> string </deficitWeight>
        <destinationCity xmlns="http://web.ltl.smc.com"> string </destinationCity>
        <destinationCountry xmlns="http://web.ltl.smc.com"> string </destinationCountry>
        <destinationPostalCode xmlns="http://web.ltl.smc.com"> string </destinationPostalCode>
        <destinationState xmlns="http://web.ltl.smc.com"> string </destinationState>
        <!--Zero or more repetitions:-->
        <details xmlns="http://web.ltl.smc.com">
          <LTLResponseDetail>
            <charge/> string </charge>
            <error/> string </error>
            <nmfcClass/> string </nmfcClass>
            <rate/> string </rate>
            <weight/> string </weight>
          </LTLResponseDetail>
        </details>
        <discountAmount xmlns="http://web.ltl.smc.com"> string </discountAmount>
        <discountApplication xmlns="http://web.ltl.smc.com"> string </discountApplication>
        <discountPctUsed xmlns="http://web.ltl.smc.com"> string </discountPctUsed>
        <effectiveDate xmlns="http://web.ltl.smc.com"/>
        <errorCode xmlns="http://web.ltl.smc.com"> string </errorCode>
        <mcDiscount xmlns="http://web.ltl.smc.com"> string </mcDiscount>
        <minimumCharge xmlns="http://web.ltl.smc.com"> string </minimumCharge>
        <orgDestToGateWayPointFlag xmlns="http://web.ltl.smc.com"> string </orgDestToGateWayPointFlag>
        <originCity xmlns="http://web.ltl.smc.com"> string </originCity>
        <originCountry xmlns="http://web.ltl.smc.com"> string </originCountry>
        <originPostalCode xmlns="http://web.ltl.smc.com"> string </originPostalCode>
        <originState xmlns="http://web.ltl.smc.com"> string </originState>
        <rateAdjustmentFactor xmlns="http://web.ltl.smc.com"> string </rateAdjustmentFactor>
        <rateApplication xmlns="http://web.ltl.smc.com"/>
        <shipmentDateCCYYMMDD xmlns="http://web.ltl.smc.com"> string </shipmentDateCCYYMMDD>
        <shipmentID xmlns="http://web.ltl.smc.com"> string </shipmentID>
        <stopAlternationWeight xmlns="http://web.ltl.smc.com"> string </stopAlternationWeight>
        <suffix xmlns="http://web.ltl.smc.com"/>
        <surchargeAmount xmlns="http://web.ltl.smc.com"> string </surchargeAmount>
        <surchargeApplication xmlns="http://web.ltl.smc.com"> string </surchargeApplication>
        <surchargePercentUsed xmlns="http://web.ltl.smc.com"> string </surchargePercentUsed>
        <tariffName xmlns="http://web.ltl.smc.com"> string </tariffName>
        <tblno xmlns="http://web.ltl.smc.com"/>
        <totalCharge xmlns="http://web.ltl.smc.com"> string </totalCharge>
        <useDiscounts xmlns="http://web.ltl.smc.com"> string </useDiscounts>
        <useSingleShipmentCharges xmlns="http://web.ltl.smc.com"> string </useSingleShipmentCharges>
        <userMinimumChargeFloor xmlns="http://web.ltl.smc.com"> string </userMinimumChargeFloor>
        <weightBreak_Discount_1 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_1>
```

(LTLRateShipment Output Continued)

```
<weightBreak_Discount_10 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_10>
<weightBreak_Discount_11 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_11>
<weightBreak_Discount_2 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_2>
<weightBreak_Discount_3 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_3>
<weightBreak_Discount_4 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_4>
<weightBreak_Discount_5 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_5>
<weightBreak_Discount_6 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_6>
<weightBreak_Discount_7 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_7>
<weightBreak_Discount_8 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_8>
<weightBreak_Discount_9 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_9>
</ns1:LTLRateShipmentResponse>
</ns1:LTLRateShipmentResponse>
</soap:Body>
</soap:Envelope>
```

Sample

LTLRateShipmentResponse

\* indicates passed in the request

| Return Value  | Type   | Returned    | Description  |
|---|--------|-------------|--|
| LTLRateShipmentResponse<br><b>.shipmentDateCCYYMMDD</b> | string | Always      | *Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| LTLRateShipmentResponse<br><b>.originCity</b>           | string | Conditional | *Origin City (Maximum of 60 ascii characters)  |
| LTLRateShipmentResponse<br><b>.originState</b>          | string | Always      | *Origin State (maximum of 2 ascii characters; must comply with associated postal code). State codes are returned even if they are not passed in the request.   |
| LTLRateShipmentResponse<br><b>.destinationCity</b>      | string | Conditional | *Destination City (Maximum of 60 ascii characters)   |
| LTLRateShipmentResponse<br><b>.destinationState</b>     | string | Always      | *Destination State (maximum of 2 ascii characters; must comply with associated postal code).   |
| LTLRateShipmentResponse<br><b>.surchargePercentUsed</b> | string | Always      | Surcharge Percent Used (2 decimal places)  |
| LTLRateShipmentResponse<br><b>.deficitCharge</b>        | string | Always      | The charge for deficit weight (2 decimal places)   |
| LTLRateShipmentResponse<br><b>.surchargeAmount</b>      | string | Always      | Surcharge Amount (2 decimal places)  |
| LTLRateShipmentResponse<br><b>.errorCode</b>            | string | Conditional | Returns code only if error exists.   |
| LTLRateShipmentResponse<br><b>.tblno</b>                | string | Always      | The table number from the applicable tariff for the origin/destination postal code pair.   |
| LTLRateShipmentResponse<br><b>.RBNO</b>                 | string | Always      | The rate basis number from the applicable tariff for the origin/destination postal code pair.  |
| LTLRateShipmentResponse<br><b>.suffix</b>               | string | Always      | The rbno suffix from the applicable tariff for the origin/destination postal code pair.  |
| LTLRateShipmentResponse<br><b>.actualWgt</b>            | string | Always      | The real weight of the shipment, not including any applicable deficit weight (whole number)  |
| LTLRateShipmentResponse<br><b>.billedWgt</b>            | string | Always      | The weight at which the shipment is rated; Actual Weight or Actual Weight plus Deficit Weight (whole number)   |
| LTLRateShipmentResponse<br><b>.LHGrossCharge</b>        | string | Always      | Line Haul Gross Charge Amount for the shipment (no discounts or accessorials) (2 decimal places)   |
| LTLRateShipmentResponse<br><b>.minimumCharge</b>        | string | Always      | Minimum Charge Amount for the shipment (2 decimal places)  |
| LTLRateShipmentResponse<br><b>.absoluteMCFloor</b>      | string | Conditional | Absolute Minimum Charge amount for the shipment (2 decimal places)   |

*(LTLRateShipment Output Continued)*

|   |        |             |  |
|---|--------|-------------|--|
| LTLRateShipmentResponse<br><b>.deficitRate</b>              | string | Always      | The rate for the deficit weight/class (2 decimal places)   |
| LTLRateShipmentResponse<br><b>.deficitWeight</b>            | string | Always      | The amount of additional weight necessary for the use of lower rates (whole number)  |
| LTLRateShipmentResponse<br><b>.deficitCharge</b>            | string | Always      | The charge for deficit weight (2 decimal places)   |
| LTLRateShipmentResponse<br><b>.totalCharge</b>              | string | Always      | The NET charge for the shipment - Gross charge plus accessorial charges and applied discounts (2 decimal places)   |
| LTLRateShipmentResponse<br><b>.discountPctUsed</b>          | string | Always      | The percentage used in the rating processes based on the Billed Weight (2 decimal places)  |
| LTLRateShipmentResponse<br><b>.discountAmount</b>           | string | Always      | A dollar and cents amount of the calculated Discount (2 decimal places)  |
| LTLRateShipmentResponse<br><b>.shipmentID</b>               | string | Conditional | *Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)  |
| LTLRateShipmentResponse<br><b>.tariffName</b>               | string | Always      | *Tariff name (8 characters)  |
| LTLRateShipmentResponse<br><b>.effectiveDate</b>            | string | Always      | Tariff Effective Date (CCYYMMDD)   |
| LTLRateShipmentResponse<br><b>.rateApplication</b>          | string | Always      | R = rated; M = minimum charge applied; F = Floor applied   |
| LTLRateShipmentResponse<br><b>.originCountry</b>            | string | Always      | *Origin Country: USA, MEX, CAN (3 alpha)   |
| LTLRateShipmentResponse<br><b>.destinationCountry</b>       | string | Always      | *Destination Country: USA, MEX, CAN (3 alpha)  |
| LTLRateShipmentResponse<br><b>.originPostalCode</b>         | string | Always      | *Origin Postal code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.  |
| LTLRateShipmentResponse<br><b>.destinationPostalCode</b>    | string | Always      | *Destination Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.   |
| LTLRateShipmentResponse<br><b>.useSingleShipmentCharges</b> | string | Conditional | *(Y/N); "N" indicates the system should rate the bill as a multiple shipment. "Y" indicates the system should rate the bill as a single shipment. This field is only applicable when the shipment uses a tariff that uses single shipment charges. The default for this field is "N".  |
| LTLRateShipmentResponse<br><b>.rateAdjustmentFactor</b>     | string | Conditional | *A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 |
| LTLRateShipmentResponse<br><b>.useDiscounts</b>             | string | Conditional | *(Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| LTLRateShipmentResponse<br><b>.discountApplication</b>      | string | Conditional | * R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".   |
| LTLRateShipmentResponse<br><b>.weightBreak_Discount_1</b>   | string | Conditional | Weightbreak Discount 1 (Maximum value of 99.99)  |
| LTLRateShipmentResponse<br><b>.weightBreak_Discount_2</b>   | string | Conditional | Weightbreak Discount 2 (Maximum value of 99.99)  |
| LTLRateShipmentResponse<br><b>.weightBreak_Discount_3</b>   | string | Conditional | Weightbreak Discount 3 (Maximum value of 99.99)  |
| LTLRateShipmentResponse<br><b>.weightBreak_Discount_4</b>   | string | Conditional | Weightbreak Discount 4 (Maximum value of 99.99)  |
| LTLRateShipmentResponse<br><b>.weightBreak_Discount_5</b>   | string | Conditional | Weightbreak Discount 5 (Maximum value of 99.99)  |
| LTLRateShipmentResponse<br><b>.weightBreak_Discount_6</b>   | string | Conditional | Weightbreak Discount 6 (Maximum value of 99.99)  |
| LTLRateShipmentResponse<br><b>.weightBreak_Discount_7</b>   | string | Conditional | Weightbreak Discount 7 (Maximum value of 99.99)  |

*(LTLRateShipment Output Continued)*

|  |                      |             |  |
|--|----------------------|-------------|--|
| LTLRateShipmentResponse<br><b>.weightBreak_Discount_8</b>    | string               | Conditional | Weightbreak Discount 8 (Maximum value of 99.99)  |
| LTLRateShipmentResponse<br><b>.weightBreak_Discount_9</b>    | string               | Conditional | Weightbreak Discount 9 (Maximum value of 99.99)  |
| LTLRateShipmentResponse<br><b>.weightBreak_Discount_10</b>   | string               | Conditional | Weightbreak Discount 10 (Maximum value of 99.99)   |
| LTLRateShipmentResponse<br><b>.weightBreak_Discount_11</b>   | string               | Conditional | Weightbreak Discount 11 (Maximum value of 99.99)   |
| LTLRateShipmentResponse<br><b>.mcDiscount</b>                | string               | Conditional | *Minimum Charge Discount (2 decimal places)  |
| LTLRateShipmentResponse<br><b>.userMinimumChargeFloor</b>    | string               | Conditional | Minimum floor charge entered by user. (Maximum value of 99999.99)  |
| LTLRateShipmentResponse<br><b>.LTL_Surcharge</b>             | string               | Conditional | *LTL surcharge percentage (Maximum value 99.99)  |
| LTLRateShipmentResponse<br><b>.TL_Surcharge</b>              | string               | Conditional | *TL Surcharge percentage (Maximum value 99.99)   |
| LTLRateShipmentResponse<br><b>.surchargeApplication</b>      | string               | Conditional | * G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges |
| LTLRateShipmentResponse<br><b>.stopAlternationWeight</b>     | string               | Conditional | * Maximum weight to stop the rating alternation. (Maximum value of 999999)                                     |
| LTLRateShipmentResponse<br><b>.orgDestToGateWayPointFlag</b> | string               | Conditional | <i>Internal Use Only</i>   |
| LTLRateShipmentResponse<br><b>.details</b>                   | complex (repeatable) | Always      | Zero or more repetitions of Rate, Charge, Error, NMFC Class and Weight   |
| LTLRateShipmentResponse<br>.details. <b>rate</b>             | string               | Always      | The rate for the specified shipment line (2 decimal places)  |
| LTLRateShipmentResponse<br>.details. <b>charge</b>           | string               | Always      | The charge for the shipment line (2 decimal places)  |
| LTLRateShipmentResponse<br>.details. <b>error</b>            | string               | Conditional | Returns code only if error exists.   |
| LTLRateShipmentResponse<br>.details. <b>nmfcClass</b>        | string               | Always      | *The NMFC Class of the specified shipment line.  |
| LTLRateShipmentResponse<br>.details. <b>weight</b>           | string               | Always      | *The weight for the specified shipment line (whole number)   |

## 2.5 LTLRateShipmentMultiple

### 2.5.1 Description

This service is used to rate multiple shipments in a single request using NMFC class and weight. The service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.



## 2.5.2 Input

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:web="http://webservices.smc.com" xmlns:web1="http://web.ltl.smc.com">
  <soapenv:Header>
    <web:AuthenticationToken>
      <web:licenseKey> string </web:licenseKey>
      <web:password> string </web:password>
      <web:username> string </web:username>
    </web:AuthenticationToken>
  </soapenv:Header>
  <soapenv:Body>
    <web:LTLRateShipmentMultiple>
      <web:LTLRateShipmentMultipleRequest>
        <!--Zero or more repetitions:-->
        <web1:LTLRateShipmentRequest>
          <web1:LTL_Surcharge> string </web1:LTL_Surcharge>
          <web1:TL_Surcharge> string </web1:TL_Surcharge>
          <web1:destinationCity> string </web1:destinationCity>
          <web1:destinationCountry> string </web1:destinationCountry>
          <web1:destinationPostalCode> string </web1:destinationPostalCode>
          <web1:destinationState> string </web1:destinationState>
          <web1:details>
            <!--Zero or more repetitions:-->
            <web1:LTLRequestDetail>
              <web1:nmfcClass> string </web1:nmfcClass>
              <web1:weight> string </web1:weight>
            </web1:LTLRequestDetail>
          </web1:details>
          <web1:discountApplication> string </web1:discountApplication>
          <web1:mcDiscount> string </web1:mcDiscount>
          <web1:orgDestToGateWayPointFlag> string </web1:orgDestToGateWayPointFlag>
          <web1:originCity> string </web1:originCity>
          <web1:originCountry> string </web1:originCountry>
          <web1:originPostalCode> string </web1:originPostalCode>
          <web1:originState> string </web1:originState>
          <web1:rateAdjustmentFactor> string </web1:rateAdjustmentFactor>
          <web1:shipmentDateCCYYMMDD> string </web1:shipmentDateCCYYMMDD>
          <web1:shipmentID> string </web1:shipmentID>
          <web1:stopAlternationWeight> string </web1:stopAlternationWeight>
          <web1:surchargeApplication> string </web1:surchargeApplication>
          <web1:tariffName> string </web1:tariffName>
          <web1:useDiscounts> string </web1:useDiscounts>
          <web1:useSingleShipmentCharges> string </web1:useSingleShipmentCharges>
          <web1:userMinimumChargeFloor> string </web1:userMinimumChargeFloor>
          <web1:weightBreak_Discount_1> string </web1:weightBreak_Discount_1>
          <web1:weightBreak_Discount_10> string </web1:weightBreak_Discount_10>
          <web1:weightBreak_Discount_11> string </web1:weightBreak_Discount_11>
          <web1:weightBreak_Discount_2> string </web1:weightBreak_Discount_2>
          <web1:weightBreak_Discount_3> string </web1:weightBreak_Discount_3>
          <web1:weightBreak_Discount_4> string </web1:weightBreak_Discount_4>
          <web1:weightBreak_Discount_5> string </web1:weightBreak_Discount_5>
          <web1:weightBreak_Discount_6> string </web1:weightBreak_Discount_6>
          <web1:weightBreak_Discount_7> string </web1:weightBreak_Discount_7>
          <web1:weightBreak_Discount_8> string </web1:weightBreak_Discount_8>
          <web1:weightBreak_Discount_9> string </web1:weightBreak_Discount_9>
        </web1:LTLRateShipmentRequest>
      </web:LTLRateShipmentMultipleRequest>
    </web:LTLRateShipmentMultiple>
  </soapenv:Body>
</soapenv:Envelope>
```

## LTLRateShipmentMultipleRequest

| Argument   | Type                 | Required /Optional | Description   |
|--|----------------------|--------------------|---|
| LTLRateShipmentMultipleRequest                                     | complex (repeatable) | Required           | Zero or more repetitions  |
| LTLRateShipmentMultipleRequest<br><b>.shipmentDateCCYYMMDD</b>     | string               | Required           | Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| LTLRateShipmentMultipleRequest<br><b>.originCountry</b>            | string               | Required           | Origin Country: USA, MEX, CAN (3 alpha)   |
| LTLRateShipmentMultipleRequest<br><b>.originPostalCode</b>         | string               | Required           | Origin Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.  |
| LTLRateShipmentMultipleRequest<br><b>.originCity</b>               | string               | Optional           | Origin City (Maximum of 60 ascii characters)  |
| LTLRateShipmentMultipleRequest<br><b>.originState</b>              | string               | Optional           | Origin State (maximum of 2 ascii characters; must comply with associated postal code)   |
| LTLRateShipmentMultipleRequest<br><b>.destinationCountry</b>       | string               | Required           | Destination Country: USA, MEX, CAN (3 alpha)  |
| LTLRateShipmentMultipleRequest<br><b>.destinationPostalCode</b>    | string               | Required           | Destination Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.   |
| LTLRateShipmentMultipleRequest<br><b>.destinationCity</b>          | string               | Optional           | Destination City (Maximum of 60 ascii characters)   |
| LTLRateShipmentMultipleRequest<br><b>.destinationState</b>         | string               | Optional           | Destination State (maximum of 2 ascii characters; must comply with associated postal code)  |
| LTLRateShipmentMultipleRequest<br><b>.useSingleShipmentCharges</b> | string               | Optional           | (Y/N); "N" indicates the system should rate the bill as a multiple shipment. "Y" indicates the system should rate the bill as a single shipment. This field is only applicable when the shipment uses a tariff that uses single shipment charges. The default for this field is "N".  |
| LTLRateShipmentMultipleRequest<br><b>.rateAdjustmentFactor</b>     | string               | Optional           | A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 (Maximum value of 9.9999)   |
| LTLRateShipmentMultipleRequest<br><b>.useDiscounts</b>             | string               | Optional           | (Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| LTLRateShipmentMultipleRequest<br><b>.discountApplication</b>      | string               | Optional           | R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".  |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_1</b>   | string               | Optional           | Weightbreak Discount 1 (Maximum value of 99.99)   |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_2</b>   | string               | Optional           | Weightbreak Discount 2 (Maximum value of 99.99)   |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_3</b>   | string               | Optional           | Weightbreak Discount 3 (Maximum value of 99.99)   |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_4</b>   | string               | Optional           | Weightbreak Discount 4 (Maximum value of 99.99)   |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_5</b>   | string               | Optional           | Weightbreak Discount 5 (Maximum value of 99.99)   |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_6</b>   | string               | Optional           | Weightbreak Discount 6 (Maximum value of 99.99)   |

(LTLRateShipmentMultiple Input Continued)

|   |                         |          |  |
|---|-------------------------|----------|--|
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_7</b>    | string                  | Optional | Weightbreak Discount 7 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_8</b>    | string                  | Optional | Weightbreak Discount 8 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_9</b>    | string                  | Optional | Weightbreak Discount 9 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_10</b>   | string                  | Optional | Weightbreak Discount 10 (Maximum value of 99.99)   |
| LTLRateShipmentMultipleRequest<br><b>.discountApplication</b>       | string                  | Optional | R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C". |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_1</b>    | string                  | Optional | Weightbreak Discount 1 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_2</b>    | string                  | Optional | Weightbreak Discount 2 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_3</b>    | string                  | Optional | Weightbreak Discount 3 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_4</b>    | string                  | Optional | Weightbreak Discount 4 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_5</b>    | string                  | Optional | Weightbreak Discount 5 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_6</b>    | string                  | Optional | Weightbreak Discount 6 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_7</b>    | string                  | Optional | Weightbreak Discount 7 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_8</b>    | string                  | Optional | Weightbreak Discount 8 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_9</b>    | string                  | Optional | Weightbreak Discount 9 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_10</b>   | string                  | Optional | Weightbreak Discount 10 (Maximum value of 99.99)   |
| LTLRateShipmentMultipleRequest<br><b>.weightBreak_Discount_11</b>   | string                  | Optional | Weightbreak Discount 11 (Maximum value of 99.99)   |
| LTLRateShipmentMultipleRequest<br><b>.mcDiscount</b>                | string                  | Optional | Minimum Charge Discount (2 decimal places)   |
| LTLRateShipmentMultipleRequest<br><b>.userMinimumChargeFloor</b>    | string                  | Optional | Minimum floor charge entered by user. (Maximum value of 99999.99)  |
| LTLRateShipmentMultipleRequest<br><b>.LTL_Surcharge</b>             | string                  | Optional | LTL surcharge percentage (Maximum value 99.99)   |
| LTLRateShipmentMultipleRequest<br><b>.TL_Surcharge</b>              | string                  | Optional | TL surcharge percentage (Maximum value 99.99)  |
| LTLRateShipmentMultipleRequest<br><b>.surchargeApplication</b>      | string                  | Optional | G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges         |
| LTLRateShipmentMultipleRequest<br><b>.orgDestToGateWayPointFlag</b> | string                  | Optional | <i>Internal Use Only</i>   |
| LTLRateShipmentMultipleRequest<br><b>.shipmentID</b>                | string                  | Optional | Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)   |
| LTLRateShipmentMultipleRequest<br><b>.tariffName</b>                | string                  | Required | Tariff name (8 characters)   |
| LTLRateShipmentMultipleRequest<br><b>.stopAlternationWeight</b>     | string                  | Optional | Maximum weight to stop the rating alternation. (Maximum value of 999999)   |
| LTLRateShipmentMultipleRequest<br><b>.details</b>                   | complex<br>(repeatable) | Required | Zero or more repetitions of NMFC Class and Weight. (Maximum of 100 details lines)                                    |
| LTLRateShipmentMultipleRequest<br><b>.details.nmfcClass</b>         | string                  | Required | The NMFC Class of the specified shipment line.   |
| LTLRateShipmentMultipleRequest<br><b>.details.weight</b>            | string                  | Required | The weight for the specified shipment line. (Maximum value of 999999)  |

\* See Quick Tip on page 20 for weightbreak notes

## 2.5.3 Output

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soap:Body>
    <ns1:LTLRateShipmentMultipleResponse xmlns:ns1="http://webservices.smc.com">
      <ns1:LTLRateShipmentMultipleResponse>
        <ns2:LTLRateShipmentResponse xmlns:ns2="http://web.ltl.smc.com">
          <LHGrossCharge xmlns="http://web.ltl.smc.com">string</LHGrossCharge>
          <LTL_Surcharge xmlns="http://web.ltl.smc.com"> string </LTL_Surcharge>
          <RBNO xmlns="http://web.ltl.smc.com"> string </RBNO>
          <TL_Surcharge xmlns="http://web.ltl.smc.com"> string </TL_Surcharge>
          <absoluteMCFloor xmlns="http://web.ltl.smc.com"> string </absoluteMCFloor>
          <actualWgt xmlns="http://web.ltl.smc.com"> string </actualWgt>
          <billedWgt xmlns="http://web.ltl.smc.com"> string </billedWgt>
          <deficitCharge xmlns="http://web.ltl.smc.com"> string </deficitCharge>
          <deficitRate xmlns="http://web.ltl.smc.com"> string </deficitRate>
          <deficitWeight xmlns="http://web.ltl.smc.com"> string </deficitWeight>
          <destinationCity xsi:nil="true" xmlns="http://web.ltl.smc.com"/>
          <destinationCountry xmlns="http://web.ltl.smc.com"> string </destinationCountry>
          <destinationPostalCode xmlns="http://web.ltl.smc.com"> string </destinationPostalCode>
          <destinationState xmlns="http://web.ltl.smc.com"> string </destinationState>
          <!--Zero or more repetitions-->
          <details xmlns="http://web.ltl.smc.com">
            <LTLResponseDetail>
              <charge> string </charge>
              <error> string </error>
              <nmfcClass> string </nmfcClass>
              <rate> string </rate>
              <weight> string </weight>
            </LTLResponseDetail>
          </details>
          <discountAmount xmlns="http://web.ltl.smc.com"> string </discountAmount>
          <discountApplication xmlns="http://web.ltl.smc.com"> string </discountApplication>
          <discountPctUsed xmlns="http://web.ltl.smc.com"> string </discountPctUsed>
          <effectiveDate xmlns="http://web.ltl.smc.com"> string </effectiveDate>
          <errorCode xmlns="http://web.ltl.smc.com"> string </errorCode>
          <mcDiscount xmlns="http://web.ltl.smc.com"> string </mcDiscount>
          <minimumCharge xmlns="http://web.ltl.smc.com"> string.92</minimumCharge>
          <orgDestToGateWayPointFlag xsi:nil="true" xmlns="http://web.ltl.smc.com"/>
          <originCity xsi:nil="true" xmlns="http://web.ltl.smc.com"/>
          <originCountry xmlns="http://web.ltl.smc.com"> string </originCountry>
          <originPostalCode xmlns="http://web.ltl.smc.com"> string </originPostalCode>
          <originState xmlns="http://web.ltl.smc.com"> string </originState>
          <rateAdjustmentFactor xsi:nil="true" xmlns="http://web.ltl.smc.com"/>
          <rateApplication xmlns="http://web.ltl.smc.com">M string rateApplication>
          <shipmentDateCCYYMMDD xmlns="http://web.ltl.smc.com"> string </shipmentDateCCYYMMDD>
          <shipmentID xmlns="http://web.ltl.smc.com"> string </shipmentID>
          <stopAlternationWeight xsi:nil="true" xmlns="http://web.ltl.smc.com"/>
          <suffix xmlns="http://web.ltl.smc.com"> string </suffix>
          <surchargeAmount xmlns="http://web.ltl.smc.com"> string </surchargeAmount>
          <surchargeApplication xmlns="http://web.ltl.smc.com"> string </surchargeApplication>
          <surchargePercentUsed xmlns="http://web.ltl.smc.com"> string </surchargePercentUsed>
          <tariffName xmlns="http://web.ltl.smc.com"> string </tariffName>
          <tblno xmlns="http://web.ltl.smc.com"> string </tblno>
          <totalCharge xmlns="http://web.ltl.smc.com"> string </totalCharge>
          <useDiscounts xmlns="http://web.ltl.smc.com"> string </useDiscounts>
          <useSingleShipmentCharges xmlns="http://web.ltl.smc.com"> string </useSingleShipmentCharges>
          <userMinimumChargeFloor xmlns="http://web.ltl.smc.com"> string </userMinimumChargeFloor>
          <weightBreak_Discount_1 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_1>
        </ns2:LTLRateShipmentResponse>
      </ns1:LTLRateShipmentMultipleResponse>
    </ns1:LTLRateShipmentMultipleResponse>
  </soap:Body>
</soap:Envelope>
```

(LTLRateShipmentMultiple Output Continued)

```

<weightBreak_Discount_10 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_10>
<weightBreak_Discount_11 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_11>
<weightBreak_Discount_2 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_2>
<weightBreak_Discount_3 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_3>
<weightBreak_Discount_4 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_4>
<weightBreak_Discount_5 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_5>
<weightBreak_Discount_6 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_6>
<weightBreak_Discount_7 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_7>
<weightBreak_Discount_8 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_8>
<weightBreak_Discount_9 xmlns="http://web.ltl.smc.com"> string </weightBreak_Discount_9>
</ns2:LTLRateShipmentResponse>
</ns1:LTLRateShipmentMultipleResponse>
</ns1:LTLRateShipmentMultipleResponse>
</soap:Body>
</soap:Envelope>

```

sample

LTLRateShipmentMultipleResponse

\* indicates passed in the request

| Return Value   | Type                 | Returned    | Description  |
|--|----------------------|-------------|--|
| LTLRateShipmentMultipleResponse                          | complex (repeatable) | Always      | Zero or more repetitions   |
| LTLRateShipmentMultipleResponse<br>.shipmentDateCCYYMMDD | string               | Always      | *Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| LTLRateShipmentMultipleResponse<br>.originCity           | string               | Conditional | *Origin City (Maximum of 60 ascii characters)  |
| LTLRateShipmentMultipleResponse<br>.originState          | string               | Always      | *Origin State (maximum of 2 ascii characters; must comply with associated postal code)   |
| LTLRateShipmentMultipleResponse<br>.destinationCity      | string               | Conditional | *Destination City (Maximum of 60 ascii characters)   |
| LTLRateShipmentMultipleResponse<br>.destinationState     | string               | Always      | *Destination State (maximum of 2 ascii characters; must comply with associated postal code)  |
| LTLRateShipmentMultipleResponse<br>.surchargePercentUsed | string               | Always      | Surcharge Percent Used (2 decimal places)  |
| LTLRateShipmentMultipleResponse<br>.surchargeAmount      | string               | Always      | Surcharge Amount (2 decimal places)  |
| LTLRateShipmentMultipleResponse<br>.errorCode            | string               | Conditional | Returns code only if error exists.   |
| LTLRateShipmentMultipleResponse<br>.tblno                | string               | Always      | The table number from the applicable tariff for the origin/destination postal code pair.   |
| LTLRateShipmentMultipleResponse<br>.RBNO                 | string               | Always      | The rate basis number from the applicable tariff for the origin/destination postal code pair.  |
| LTLRateShipmentMultipleResponse<br>.suffix               | string               | Always      | The rbno suffix from the applicable tariff for the origin/destination postal code pair.  |
| LTLRateShipmentMultipleResponse<br>.actualWgt            | string               | Always      | The real weight of the shipment, not including any applicable deficit weight (whole number)  |
| LTLRateShipmentMultipleResponse<br>.billedWgt            | string               | Always      | The weight at which the shipment is rated; Actual Weight or Actual Weight plus Deficit Weight (whole number)   |
| LTLRateShipmentMultipleResponse<br>.LHGrossCharge        | string               | Always      | Line Haul Gross Charge Amount for the shipment (no discounts or accessorials) (2 decimal places)   |
| LTLRateShipmentMultipleResponse<br>.minimumCharge        | string               | Always      | Minimum Charge Amount for the shipment (2 decimal places)  |
| LTLRateShipmentMultipleResponse<br>.absoluteMCFloor      | string               | Conditional | Absolute Minimum Charge amount for the shipment (2 decimal places)   |
| LTLRateShipmentMultipleResponse<br>.deficitWeight        | string               | Always      | The amount of additional weight necessary for the use of lower rates (whole number)  |

*(LTLRateShipmentMultiple Output Continued)*

|   |        |             |  |
|---|--------|-------------|--|
| LTLRateShipmentMultipleResponse<br><b>.deficitRate</b>              | string | Always      | The rate for the deficit weight/class (2 decimal places)   |
| LTLRateShipmentMultipleResponse<br><b>.deficitCharge</b>            | string | Always      | The charge for deficit weight (2 decimal places)   |
| LTLRateShipmentMultipleResponse<br><b>.totalCharge</b>              | string | Always      | The NET charge for the shipment - Gross charge plus accessorial charges and applied discounts (2 decimal places)   |
| LTLRateShipmentMultipleResponse<br><b>.discountPctUsed</b>          | string | Always      | The percentage used in the rating processes based on the Billed Weight (2 decimal places)  |
| LTLRateShipmentMultipleResponse<br><b>.discountAmount</b>           | string | Always      | A dollar and cents amount of the calculated Discount (2 decimal places)  |
| LTLRateShipmentMultipleResponse<br><b>.shipmentID</b>               | string | Conditional | *Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)  |
| LTLRateShipmentMultipleResponse<br><b>.tariffName</b>               | string | Always      | *Tariff name (8 characters)  |
| LTLRateShipmentMultipleResponse<br><b>.effectiveDate</b>            | string | Always      | Tariff Effective Date (CCYYMMDD)   |
| LTLRateShipmentMultipleResponse<br><b>.rateApplication</b>          | string | Always      | R = rated; M = minimum charge applied; F = Floor applied   |
| LTLRateShipmentMultipleResponse<br><b>.originCountry</b>            | string | Always      | *Origin Country: USA, MEX, CAN (3 alpha)   |
| LTLRateShipmentMultipleResponse<br><b>.destinationCountry</b>       | string | Always      | *Destination Country: USA, MEX, CAN (3 alpha)  |
| LTLRateShipmentMultipleResponse<br><b>.originPostalCode</b>         | string | Always      | *Origin Postal Code  |
| LTLRateShipmentMultipleResponse<br><b>.destinationPostalCode</b>    | string | Always      | *Destination Postal Code   |
| LTLRateShipmentMultipleResponse<br><b>.useSingleShipmentCharges</b> | string | Conditional | *(Y/N); "N" indicates the system should rate the bill as a multiple shipment. "Y" indicates the system should rate the bill as a single shipment. This field is only applicable when the shipment uses a tariff that uses single shipment charges. The default for this field is "N".  |
| LTLRateShipmentMultipleResponse<br><b>.rateAdjustmentFactor</b>     | string | Conditional | *A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 |
| LTLRateShipmentMultipleResponse<br><b>.useDiscounts</b>             | string | Conditional | *(Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| LTLRateShipmentMultipleResponse<br><b>.discountApplication</b>      | string | Conditional | * R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".   |
| LTLRateShipmentMultipleResponse<br><b>.weightBreak_Discount_1</b>   | string | Conditional | Weightbreak Discount 1 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleResponse<br><b>.weightBreak_Discount_2</b>   | string | Conditional | Weightbreak Discount 2 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleResponse<br><b>.weightBreak_Discount_3</b>   | string | Conditional | Weightbreak Discount 3 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleResponse<br><b>.weightBreak_Discount_4</b>   | string | Conditional | Weightbreak Discount 4 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleResponse<br><b>.weightBreak_Discount_5</b>   | string | Conditional | Weightbreak Discount 5 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleResponse<br><b>.weightBreak_Discount_6</b>   | string | Conditional | Weightbreak Discount 6 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleResponse<br><b>.weightBreak_Discount_7</b>   | string | Conditional | Weightbreak Discount 7 (Maximum value of 99.99)  |

*(LTLRateShipmentMultiple Output Continued)*

|  |                      |             |  |
|--|----------------------|-------------|--|
| LTLRateShipmentMultipleResponse<br><b>.weightBreak_Discount_8</b>    | string               | Conditional | Weightbreak Discount 8 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleResponse<br><b>.weightBreak_Discount_9</b>    | string               | Conditional | Weightbreak Discount 9 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleResponse<br><b>.weightBreak_Discount_10</b>   | string               | Conditional | Weightbreak Discount 10 (Maximum value of 99.99)   |
| LTLRateShipmentMultipleResponse<br><b>.weightBreak_Discount_11</b>   | string               | Conditional | Weightbreak Discount 11 (Maximum value of 99.99)   |
| LTLRateShipmentMultipleResponse<br><b>.mcDiscount</b>                | string               | Conditional | *Minimum Charge Discount (2 decimal places)  |
| LTLRateShipmentMultipleResponse<br><b>.userMinimumChargeFloor</b>    | string               | Conditional | Minimum floor charge entered by user. (Maximum value of 99999.99)  |
| LTLRateShipmentMultipleResponse<br><b>.LTL_Surcharge</b>             | string               | Conditional | *LTL surcharge percentage (Maximum value 99.99)  |
| LTLRateShipmentMultipleResponse<br><b>.TL_Surcharge</b>              | string               | Conditional | *TL Surcharge percentage (Maximum value 99.99)   |
| LTLRateShipmentMultipleResponse<br><b>.surchargeApplication</b>      | string               | Conditional | * G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges |
| LTLRateShipmentMultipleResponse<br><b>.stopAlternationWeight</b>     | string               | Conditional | * Maximum weight to stop the rating alternation. (Maximum value of 999999)                                     |
| LTLRateShipmentMultipleResponse<br><b>.orgDestToGateWayPointFlag</b> | string               | Conditional | <i>Internal Use Only</i>   |
| LTLRateShipmentMultipleResponse<br><b>.details</b>                   | complex (repeatable) | Always      | Zero or more repetitions of Rate, Charge, Error, NMFC Class and Weight   |
| LTLRateShipmentMultipleResponse<br><b>.details.rate</b>              | string               | Always      | The rate for the specified shipment line (2 decimal places)  |
| LTLRateShipmentMultipleResponse<br><b>.details.charge</b>            | string               | Always      | The charge for the shipment line (2 decimal places)  |
| LTLRateShipmentMultipleResponse<br><b>.details.error</b>             | string               | Conditional | Returns code only if error exists.   |
| LTLRateShipmentMultipleResponse<br><b>.details.nmfcClass</b>         | string               | Always      | *The NMFC Class of the specified shipment line.  |
| LTLRateShipmentMultipleResponse<br><b>.details.weight</b>            | string               | Always      | *The weight for the specified shipment line (whole number)   |

## 2.6 LTLRateShipmentMultipleOpt

### 2.6.1 Description

This service is used to rate multiple shipments using binary input. The service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.

## 2.6.2 Input

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:web="http://webservices.smc.com">
  <soapenv:Header>
    <web:AuthenticationToken>
      <web:licenseKey> string </web:licenseKey>
      <web:password> string </web:password>
      <web:username> string </web:username>
    </web:AuthenticationToken>
  </soapenv:Header>
  <soapenv:Body>
    <web:LTLRateShipmentMultipleOpt>
      <web:LTLRateShipmentMultipleOptDelimitedRequest>string
    </web:LTLRateShipmentMultipleOptDelimitedRequest>
    </web:LTLRateShipmentMultipleOpt>
  </soapenv:Body>
</soapenv:Envelope>
```

sample

### LTLRateShipmentMultipleOpt Request

| Argument   | Type                    | Required/<br>Optional | Description   |
|--|-------------------------|-----------------------|---|
| <b>byte [ ]</b>  | Delimited<br>byte array | Required              | Comma delimited   |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.shipmentID</b>           | string                  | Optional              | Shipment ID; Use any combination of letters<br>and numbers to identify the shipment.<br>(Maximum of 20 ascii characters)  |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.tariffName</b>           | string                  | Required              | Tariff name (8 characters)  |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.shipmentDateCCYYMMDD</b> | string                  | Required              | Shipment Date (CCYYMMDD). This field is<br>used to select the desired tariff module for<br>rating. If the actual shipment date is passed<br>in this field, RateWareXL will select the<br>appropriate tariff module in effect based on<br>the shipment date and Tariff name passed.<br>If the user wants to specify a specific tariff<br>module for rating (regardless the of actual<br>shipment date), passing the effective date of<br>the tariff module will rate the shipment based<br>on that effective date. |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.originPostalCode</b>     | string                  | Required              | Origin Postal Code; USA = 3 or 5 numeric<br>characters; MEX = 5 numeric characters;<br>CAN = 3, 5, or 6 alpha numeric characters.<br>No dashes or spaces allowed.   |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.originCity</b>           | string                  | Optional              | Origin City (Maximum of 60 ascii characters)  |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.originState</b>          | string                  | Optional              | Origin State (maximum of 2 ascii characters;<br>must comply with associated postal code)  |



(LTLRateShipmentMultipleOpt Request Continued)

|   |        |          |   |
|---|--------|----------|---|
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.originCountry</b>             | string | Required | Origin Country: USA, MEX, CAN (3 alpha)   |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.destinationPostalCode</b>     | string | Required | Destination Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.   |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.destinationCity</b>           | string | Optional | Destination City (Maximum of 60 ascii characters)   |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.destinationState</b>          | string | Optional | Destination State (maximum of 2 ascii characters; must comply with associated postal code)  |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.destinationCountry</b>        | string | Required | Destination Country: USA, MEX, CAN (3 alpha)  |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.useDisc</b>                   | string | Optional | (Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.discountApplication</b>       | string | Optional | R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".  |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.userMCFloor</b>               | string | Optional | Minimum floor charge entered by user. (Maximum value of 99999.99)   |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.useSingleShipment</b>         | string | Optional | (Y/N); "N" indicates the system should rate the bill as a multiple shipment. "Y" indicates the system should rate the bill as a single shipment. This field is only applicable when the shipment uses a tariff that uses single shipment charges. The default for this field is "N".  |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.rateAdjustmentFactor</b>      | string | Optional | A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 (Maximum value of 9.9999) |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.orgDestToGateWayPointFlag</b> | string | Optional | <i>Internal Use Only</i>  |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.mcDiscount</b>                | string | Optional | Minimum Charge Discount (Maximum value of 99.99)  |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.LTL_Surcharge</b>             | string | Optional | LTL surcharge percentage (Maximum value 99.99)  |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.TL_Surcharge</b>              | string | Optional | TL surcharge percentage (Maximum value 99.99)   |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.stopAlternationWeight</b>     | string | Optional | Maximum weight to stop the rating alternation. (Maximum value of 999999)  |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.surchargeApplication</b>      | string | Optional | G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges  |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_1</b>    | string | Optional | Weightbreak Discount 1 (Maximum value of 99.99)   |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_2</b>    | string | Optional | Weightbreak Discount 2 (Maximum value of 99.99)   |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_3</b>    | string | Optional | Weightbreak Discount 3 (Maximum value of 99.99)   |

*(LTLRateShipmentMultipleOpt Request Continued)*

|   |        |          |   |
|---|--------|----------|---|
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_4</b>  | string | Optional | Weightbreak Discount 4 (Maximum value of 99.99)                       |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_5</b>  | string | Optional | Weightbreak Discount 5 (Maximum value of 99.99)                       |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_6</b>  | string | Optional | Weightbreak Discount 6 (Maximum value of 99.99)                       |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_7</b>  | string | Optional | Weightbreak Discount 7 (Maximum value of 99.99)                       |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_8</b>  | string | Optional | Weightbreak Discount 8 (Maximum value of 99.99)                       |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_9</b>  | string | Optional | Weightbreak Discount 9 (Maximum value of 99.99)                       |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_10</b> | string | Optional | Weightbreak Discount 10 (Maximum value of 99.99)                      |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_11</b> | string | Optional | Weightbreak Discount 11 (Maximum value of 99.99)                      |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.filler</b>                  | string | Optional | Filler  |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.details.nmfcClass1</b>      | string | Required | The NMFC Class of the specified shipment line.                        |
| LTLRateShipmentMultipleOptDelimitedRequest<br><b>.details.weight1</b>         | string | Required | The weight for the specified shipment line. (Maximum value of 999999) |

\* See Quick Tip on page 20 for weightbreak notes

## 2.6.3 Output

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soap:Body>
    <ns1:LTLRateShipmentMultipleOptResponse xmlns:ns1="http://webservices.smc.com">
      <ns1:LTLRateShipmentMultipleOptDelimitedResponse ns2:mimeType="application/octet-stream"
xmlns:ns2="http://www.w3.org/2004/11/xmlmime"> string </ns1:LTLRateShipmentMultipleOptDelimitedResponse>
    </ns1:LTLRateShipmentMultipleOptResponse>
  </soap:Body>
</soap:Envelope>
```

sample

## LTLRateShipmentMultipleOpt Response

| Return Value  | Type                 | Returned    | Description   |
|---|----------------------|-------------|---|
| <b>byte [ ]</b>   | Delimited byte array | Always      | Comma delimited   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.errorCode</b>            | string               | Conditional | Returns code only if error exists.  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.shipmentDateCCYYMMDD</b> | string               | Always      | Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |

*(LTLRateShipmentMultipleOpt Response Continued)*

|   |        |             |   |
|---|--------|-------------|---|
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.originCountry</b>          | string | Always      | Origin Country: USA, MEX, CAN (3 alpha)   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.originPostalCode</b>       | string | Always      | Origin Postal Code  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.originCity</b>             | string | Conditional | Origin City (Maximum of 60 ascii characters)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.originState</b>            | string | Conditional | Origin State (maximum of 2 ascii characters; must comply with associated postal code)   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.destinationCountry</b>     | string | Always      | Destination Country: USA, MEX, CAN (3 alpha)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.destinationPostalCode</b>  | string | Always      | Destination Postal Code   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.destinationCity</b>        | string | Conditional | Destination City (Maximum of 60 ascii characters)   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.destinationState</b>       | string | Conditional | Destination State (maximum of 2 ascii characters; must comply with associated postal code)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.useSingleShipment</b>      | string | Conditional | (Y/N); "N" indicates the system should rate the bill as a multiple shipment. "Y" indicates the system should rate the bill as a single shipment. This field is only applicable when the shipment uses a tariff that uses single shipment charges. The default for this field is "N".  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.rateAdjustmentFactor</b>   | string | Conditional | A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 (Maximum value of 9.9999) |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.useDisc</b>                | string | Conditional | (Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.discountApplication</b>    | string | Conditional | R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_1</b> | string | Conditional | Weightbreak Discount 1 (Maximum value of 99.99)   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_2</b> | string | Conditional | Weightbreak Discount 2 (Maximum value of 99.99)   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_3</b> | string | Conditional | Weightbreak Discount 3 (Maximum value of 99.99)   |

*(LTLRateShipmentMultipleOpt Response Continued)*

|  |        |             |  |
|--|--------|-------------|--|
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_4</b>    | string | Conditional | Weightbreak Discount 4 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_5</b>    | string | Conditional | Weightbreak Discount 5 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_6</b>    | string | Conditional | Weightbreak Discount 6 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_7</b>    | string | Conditional | Weightbreak Discount 7 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_8</b>    | string | Conditional | Weightbreak Discount 8 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_9</b>    | string | Conditional | Weightbreak Discount 9 (Maximum value of 99.99)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_10</b>   | string | Conditional | Weightbreak Discount 10 (Maximum value of 99.99)   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_11</b>   | string | Conditional | Weightbreak Discount 11 (Maximum value of 99.99)   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.mcDiscount</b>                | string | Conditional | Minimum Charge Discount (2 decimal places)   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.userMCFloor</b>               | string | Conditional | Minimum floor charge entered by user. (Maximum value of 99999.99)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.LTL_Surcharge</b>             | string | Conditional | LTL surcharge percentage (Maximum value 99.99)   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.TL_Surcharge</b>              | string | Conditional | TL surcharge percentage (Maximum value 99.99)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.surchargeApplication</b>      | string | Conditional | G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.surchargePercentUsed</b>      | string | Always      | Surcharge Percent Used (2 decimal places)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.surchargeAmount</b>           | string | Always      | Surcharge Amount (2 decimal places)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.orgDestToGateWayPointFlag</b> | string | Conditional | <i>Internal Use Only</i>   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.tableNumber</b>               | string | Always      | The table number from the applicable tariff for the origin/destination postal code pair.                     |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.RBNO</b>                      | string | Always      | The rate basis number from the applicable tariff for the origin/destination postal code pair.                |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.suffix</b>                    | string | Always      | The rbno suffix from the applicable tariff for the origin/destination postal code pair.                      |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.actualWgt</b>                 | string | Always      | The real weight of the shipment, not including any applicable deficit weight (whole number)                  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.billedWgt</b>                 | string | Always      | The weight at which the shipment is rated; Actual Weight or Actual Weight plus Deficit Weight (whole number) |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.LHGrossCharge</b>             | string | Always      | Line Haul Gross Charge Amount for the shipment (no discounts or accessorial) (2 decimal places)              |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.minimumCharge</b>             | string | Always      | Minimum Charge Amount for the shipment (2 decimal places)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.absoluteMCFloor</b>           | string | Conditional | Absolute Minimum Charge amount for the shipment (2 decimal places)   |

*(LTLRateShipmentMultipleOpt Response Continued)*

|  |        |             |   |
|--|--------|-------------|---|
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.deficitRate</b>           | string | Conditional | The rate for the deficit weight/class (2 decimal places)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.deficitWeight</b>         | string | Always      | The amount of additional weight necessary for the use of lower rates (whole number)                                 |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.deficitCharge</b>         | string | Conditional | The charge for deficit weight, if any (2 decimal places)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.totalCharge</b>           | string | Always      | The NET charge for the shipment - Gross charge plus accessorial charges and applied discounts (2 decimal places)    |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.discountPctUsed</b>       | string | Always      | The percentage used in the rating processes based on the Billed Weight. (2 decimal places)                          |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.discountAmountUsed</b>    | string | Always      | A dollar and cents amount of the calculated Discount.   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.shipmentID</b>            | string | Conditional | *Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters) |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.tariffName</b>            | string | Always      | *Tariff name (8 characters)   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.effectiveDate</b>         | string | Always      | Tariff Effective Date (CCYYMMDD)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.stopAlternationWeight</b> | string | Conditional | Maximum weight to stop the rating alternation. (Maximum value of 999999)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.rateApplication</b>       | string | Always      | R = Rated; M = Minimum charge applied;<br>F = Floor applied; D = Dim charge applied                                 |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.detailError_1</b>         | string | Conditional | Returns code only if error exists.  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.detailClass_1</b>         | string | Always      | *The NMFC Class of the specified shipment line.   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.detailWeight_1</b>        | string | Always      | *The weight for the specified shipment line (whole number)  |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.detailRate_1</b>          | string | Always      | The rate for the specified shipment line (2 decimal places)   |
| LTLRateShipmentMultipleOptDelimitedResponse<br><b>.detailCharge_1</b>        | string | Always      | The undiscounted charge for the shipment line (2 decimal places)  |

## 2.7 LTLPointList

### 2.7.1 Description

This service is used to retrieve a list of points. Use this request to resolve an error 60 or 70 in an LTLRateShipmentSimple, LTLRateShipment, or LTLRateShipmentMultiple request. Use the returned point information in the failed rating request and submit the rating request again. (If you originally submitted an LTLRateShipmentSimple request and received one of the errors above, after the call to LTLPointList, you will have to submit an LTLRateShipment instead, since LTLRateShipmentSimple request does not have a city or state field.)

## 2.7.2 Input

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:web="http://webservices.smc.com" xmlns:web1="http://web.ltl.smc.com">
  <soapenv:Header>
    <web:AuthenticationToken>
      <web:licenseKey> string </web:licenseKey>
      <web:password> string </web:password>
      <web:username> string </web:username>
    </web:AuthenticationToken>
  </soapenv:Header>
  <soapenv:Body>
    <web:LTLPointList>
      <web:LTLPointListRequest>
        <web1:country> string </web1:country>
        <web1:effectiveDate> string </web1:effectiveDate>
        <web1:originDestination> string </web1:originDestination>
        <web1:pageNumber> string </web1:pageNumber>
        <web1:postalCode> string </web1:postalCode>
        <web1:provinceStateCode/>
        <web1:tariffName> string </web1:tariffName>
      </web:LTLPointListRequest>
    </web:LTLPointList>
  </soapenv:Body>
</soapenv:Envelope>
```

sample

### LTLPointList Request

| Argument   | Type   | Required/<br>Optional | Description  |
|--|--------|-----------------------|--|
| LTLPointListRequest<br><b>.country</b>           | string | Required              | Country: USA, MEX, CAN (3 alpha)   |
| LTLPointListRequest<br><b>.effectiveDate</b>     | string | Required              | Tariff Effective Date (CCYYMMDD)   |
| LTLPointListRequest<br><b>.originDestination</b> | string | Required              | O – origin, D – destination. Specifies which side of the move the point list was requested.  |
| LTLPointListRequest<br><b>.pageNumber</b>        | string | Required              | Number greater than zero. LTLPointListRequest can only return 30 points per request. Increment the page for each request until error 67 is returned. |
| LTLPointListRequest<br><b>.postalCode</b>        | string | *Optional             | Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.    |
| LTLPointListRequest<br><b>.provinceStateCode</b> | string | Optional              | Province/State (maximum of 2 ascii characters; must comply with associated postal code)  |
| LTLPointListRequest<br><b>.tariffName</b>        | string | Required              | Tariff name (8 characters)   |

*\*In some cases the postal code is required. If the user submits a LTLPointListRequest without a postal code, an error code of 68 "postal code required" will be returned, if it is necessary.*

## Output

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soap:Body>
    <ns1:LTLPointListResponse xmlns:ns1="http://webservices.smc.com">
      <ns1:LTLPointListResponse>
        <country xmlns="http://web.ltl.smc.com">USA</country>
        <!--Zero or more repetitions:-->
        <details xmlns="http://web.ltl.smc.com">
          <LTLPointListDetail>
            <city> string </city>
            <country> string </country>
            <provinceState> string </provinceState>
          </LTLPointListDetail>
        </details>
        <effectiveDate xmlns="http://web.ltl.smc.com"> string </effectiveDate>
        <errorCode xmlns="http://web.ltl.smc.com"> string </errorCode>
        <originDestination xmlns="http://web.ltl.smc.com"> string </originDestination>
        <pageNumber xmlns="http://web.ltl.smc.com"> string </pageNumber>
        <pageSize xmlns="http://web.ltl.smc.com"> string </pageSize>
        <postalCode xmlns="http://web.ltl.smc.com"> string </postalCode>
        <provinceStateCode xmlns="http://web.ltl.smc.com"> string </provinceStateCode>
        <tariffName xmlns="http://web.ltl.smc.com"> string </tariffName>
        <totalPoints xmlns="http://web.ltl.smc.com"> string </totalPoints>
      </ns1:LTLPointListResponse>
    </ns1:LTLPointListResponse>
  </soap:Body>
</soap:Envelope></soap:Envelope>
```

sample

## LTLPointList Response

| Return Value                                       | Type    | Returned    | Description   |
|--|---------|-------------|---|
| LTLPointListResponse. <b>country</b>               | string  | Always      | * Country: USA, MEX, CAN (3 alpha)  |
| LTLPointListResponse. <b>effectiveDate</b>         | string  | Always      | *Tariff Effective Date (CCYYMMDD)   |
| LTLPointListResponse. <b>errorCode</b>             | string  | Conditional | Returns code only if error exists.  |
| LTLPointListResponse. <b>originDestination</b>     | string  | Always      | * O – origin, D – destination. Specifies which side of the move the point list was requested. |
| LTLPointListResponse. <b>pageNumber</b>            | string  | Always      | *Page number requested  |
| LTLPointListResponse. <b>pageSize</b>              | string  | Conditional | Maximum number of points allowed on a page  |
| LTLPointListResponse. <b>postalCode</b>            | string  | Conditional | * postal code   |
| LTLPointListResponse. <b>provinceStateCode</b>     | string  | Always      | *Origin State (maximum of 2 ascii characters; must comply with associated postal code)        |
| LTLPointListResponse. <b>tariffName</b>            | string  | Always      | *Tariff name (8 characters)   |
| LTLPointListResponse. <b>totalPoints</b>           | string  | Conditional | Total number of points available for the request  |
| LTLPointListResponse. <b>details</b>               | complex | Always      | Zero to 30 repetitions of City, Country, Province/State                                       |
| LTLPointListResponse. <b>details.city</b>          | string  | Always      | City (Maximum of 60 ascii characters)   |
| LTLPointListResponse. <b>details.country</b>       | string  | Always      | Country: USA, MEX, CAN (3 alpha)  |
| LTLPointListResponse. <b>details.provinceState</b> | string  | Always      | Province/State (maximum of 2 ascii characters)  |

## 2.9 DensityRateShipmentSimple

### 2.9.1 Description

This service is used to rate a single shipment using density and weight. It **does not** support the application of discounts, minimum charge floor, and other pricing factors. Shipments requiring the application of these factors should utilize the DensityRateShipment web service.

### 2.9.2 Input

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:web="http://webservices.smc.com" xmlns:web1="http://web.density.smc.com">
  <soapenv:Header>
    <web:AuthenticationToken>
      <web:licenseKey> string </web:licenseKey>
      <web:password> string </web:password>
      <web:username> string </web:username>
    </web:AuthenticationToken>
  </soapenv:Header>
  <soapenv:Body>
    <web:DensityRateShipmentSimple>
      <web:in0>
        <web1:destinationCountry> string </web1:destinationCountry>
        <web1:destinationPostalCode> string </web1:destinationPostalCode>
        <web1:detailType> string </web1:detailType>
        <web1:details>
          <!--Zero or more repetitions:-->
          <web1:DensityRequestDetail>
            <web1:cube> string </web1:cube>
            <web1:cubeUnits> string </web1:cubeUnits>
            <web1:density> string </web1:density>
            <web1:densityUnits> string </web1:densityUnits>
            <web1:dimensionUnits> string </web1:dimensionUnits>
            <web1:height> string </web1:height>
            <web1:length> string </web1:length>
            <web1:pieces> string </web1:pieces>
            <web1:weight> string </web1:weight>
            <web1:weightUnits> string </web1:weightUnits>
            <web1:width> string </web1:width>
          </web1:DensityRequestDetail>
        </web1:details>
        <web1:dimFactor> string </web1:dimFactor>
        <web1:dimFactorUnits> string </web1:dimFactorUnits>
        <web1:originCountry> string </web1:originCountry>
        <web1:originPostalCode> string </web1:originPostalCode>
        <web1:shipmentDateCCYYMMDD> string </web1:shipmentDateCCYYMMDD>
        <web1:shipmentID> string </web1:shipmentID>
        <web1:tariffName> string </web1:tariffName>
        <web1:useDimMC> string </web1:useDimMC>
      </web:in0>
    </web:DensityRateShipmentSimple>
  </soapenv:Body>
</soapenv:Envelope>
```

sample



## DensityRateShipmentSimpleRequest

| Argument  | Type                    | Required/<br>Optional | Description   |
|---|-------------------------|-----------------------|---|
| DensityRateShipmentSimpleRequest<br><b>.shipmentID</b>            | string                  | Optional              | Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)  |
| DensityRateShipmentSimpleRequest<br><b>.tariffName</b>            | string                  | Required              | Tariff name (8 characters)  |
| DensityRateShipmentSimpleRequest<br><b>.shipmentDateCCYYMMDD</b>  | string                  | Required              | Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| DensityRateShipmentSimpleRequest<br><b>.originPostalCode</b>      | string                  | Required              | Origin Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.  |
| DensityRateShipmentSimpleRequest<br><b>.destinationPostalCode</b> | string                  | Required              | Destination Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.   |
| DensityRateShipmentSimpleRequest<br><b>.originCountry</b>         | string                  | Required              | Origin Country: USA, MEX, CAN (3 alpha)   |
| DensityRateShipmentSimpleRequest<br><b>.destinationCountry</b>    | string                  | Required              | Destination Country: USA, MEX, CAN (3 alpha)  |
| DensityRateShipmentSimpleRequest<br><b>.detailType</b>            | string                  | Required              | "DENSITY" = density and weight line item, "CUBE" = cube and weight line item, "LWH" = length, width, height and weight line item.   |
| DensityRateShipmentSimpleRequest<br><b>.dimFactor</b>             | string                  | Optional              | If DimFactorUnits = "L" or "K", then the required DimFactor attribute value must be set to a value of 1 thru 9999.99. If DimFactorUnits = "I" or "C", then the required DimFactor attribute value must be set to a value of 1 thru 99999.9  |
| DensityRateShipmentSimpleRequest<br><b>.dimFactorUnits</b>        | string                  | Required              | L=pounds/feet <sup>3</sup> ; K=kilograms/meters <sup>3</sup><br>I=inches <sup>3</sup> /pound; C=centimeters <sup>3</sup> /kilogram  |
| DensityRateShipmentSimpleRequest<br><b>.useDimMC</b>              | string                  | Optional              | (Y/N); "Y"=consider minimum charge during dimming application. "N"=do not use minimum charge during dimming application. Default value is "N".  |
| DensityRateShipmentSimpleRequest<br><b>.details</b>               | complex<br>(repeatable) | Required              | Zero or more repetitions of Density Units, Pieces, Cube, Cube Units, Length, Width, Height, Dimension Units, Weight and Weight Units. (Maximum of 100 detail lines)   |
| DensityRateShipmentSimpleRequest<br><b>.details.density</b>       | string                  | Optional              | Required if Detail Type=DENSITY (Maximum value of 9999.99)  |
| DensityRateShipmentSimpleRequest<br><b>.details.densityUnits</b>  | string                  | Optional              | Required if Detail Type=DENSITY<br>L=pounds/feet <sup>3</sup> ; K=kilograms/meters <sup>3</sup>   |
| DensityRateShipmentSimpleRequest<br><b>.details.pieces</b>        | string                  | Optional              | Number of Pieces; Default is 1 (Maximum value of 999999)  |
| DensityRateShipmentSimpleRequest<br><b>.details.cube</b>          | string                  | Optional              | Required if Detail Type=CUBE (Maximum value 99999999999.9)  |
| DensityRateShipmentSimpleRequest<br><b>.details.cubeUnits</b>     | string                  | Optional              | Required if Detail Type=CUBE<br>F=feet <sup>3</sup> ; M=meters <sup>3</sup> ; I=inches <sup>3</sup> ; C=centimeters <sup>3</sup>  |
| DensityRateShipmentSimpleRequest<br><b>.details.length</b>        | string                  | Optional              | Required if Detail Type=LWH (Maximum value of 9999.99)  |
| DensityRateShipmentSimpleRequest<br><b>.details.width</b>         | string                  | Optional              | Required if Detail Type=LWH (Maximum value of 9999.99)  |

*(DensityRateShipmentSimple Request Continued)*

|  |        |          |   |
|--|--------|----------|---|
| DensityRateShipmentSimpleRequest .details.height         | string | Optional | Required if Detail Type=LWH (Maximum value of 9999.99)  |
| DensityRateShipmentSimpleRequest .details.dimensionUnits | string | Optional | Required if Detail Type=LWH F=feet, M=meters, I=inches, C=Centimeters   |
| DensityRateShipmentSimpleRequest .details.weight         | string | Required | (Minimum value 1, Maximum value 999999) NOTE: If Detail Type=LWH or Detail Type=CUBE, this must be the total line item weight of ALL Pieces. For 3 pieces, each weighing 100 pounds, the weight would be 300 pounds. This is done so the pallet weight can be used. |
| DensityRateShipmentSimpleRequest .details.weightUnits    | string | Required | L=pounds; K=kilograms   |

### 2.9.3 Output

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soap:Body>
    <ns1:DensityRateShipmentSimpleResponse xmlns:ns1="http://webservices.smc.com">
      <ns1:out>
        <destinationCountry xmlns="http://web.density.smc.com"> string </destinationCountry>
        <destinationPostalCode xmlns="http://web.density.smc.com"> string </destinationPostalCode>
        <detailType xmlns="http://web.density.smc.com"> string </detailType>
        <!--Zero or more repetitions:-->
        <details xmlns="http://web.density.smc.com">
          <DensityResponseDetail>
            <charge/> string </charge>
            <cube> string </cube>
            <cubeUnits> string </cubeUnits>
            <density> string </density>
            <densityUnits> string </densityUnits>
            <dimensionUnits> string </dimensionUnits>
            <error> string </error>
            <height> string </height>
            <length> string </length>
            <pieces> string </pieces>
            <rate/> string </rate>
            <usedCube/> string </usedCube>
            <usedDensity/> string </usedDensity>
            <usedWeight/> string </usedWeight>
            <weight> string </weight>
            <weightUnits> string </weightUnits>
            <width> string </width>
          </DensityResponseDetail>
        </details>
        <dimFactor xmlns="http://web.density.smc.com"> string </dimFactor>
        <dimFactorUnits xmlns="http://web.density.smc.com"> string </dimFactorUnits>
        <effectiveDate xmlns="http://web.density.smc.com"/>
        <errorCode xmlns="http://web.density.smc.com"> string </errorCode>
        <originCountry xmlns="http://web.density.smc.com"> string </originCountry>
        <originPostalCode xmlns="http://web.density.smc.com"> string </originPostalCode>
        <shipmentDateCCYYMMDD xmlns="http://web.density.smc.com"> string </shipmentDateCCYYMMDD>
        <shipmentID xmlns="http://web.density.smc.com"> string </shipmentID>
        <tariffName xmlns="http://web.density.smc.com"> string </tariffName>
        <totalCharge xmlns="http://web.density.smc.com"> string </totalCharge>
        <useDimMC xmlns="http://web.density.smc.com"> string useDimMC>
      </ns1:out>
    </ns1:DensityRateShipmentSimpleResponse>
  </soap:Body>
</soap:Envelope>
```

sample

## DensityRateShipmentSimpleResponse

*\* indicates passed in the request*

| Return Value  | Type                 | Returned    | Description  |
|---|----------------------|-------------|--|
| DensityRateShipmentSimpleResponse. <b>totalCharge</b>           | string               | Always      | The NET charge of the shipment (2 decimal places)  |
| DensityRateShipmentSimpleResponse. <b>destinationPostalCode</b> | string               | Always      | *Destination Postal Code   |
| DensityRateShipmentSimpleResponse. <b>destinationCountry</b>    | string               | Always      | *Destination Country: USA, MEX, CAN (3 alpha)  |
| DensityRateShipmentSimpleResponse. <b>originPostalCode</b>      | string               | Always      | *Origin Postal Code  |
| DensityRateShipmentSimpleResponse. <b>originCountry</b>         | string               | Always      | *Origin Country: USA, MEX, CAN (3 alpha)   |
| DensityRateShipmentSimpleResponse. <b>shipmentID</b>            | string               | Conditional | *Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)  |
| DensityRateShipmentSimpleResponse. <b>detailType</b>            | string               | Always      | **"DENSITY" = density and weight line item, "CUBE" = cube and weight line item, "LWH" = length, width, height and weight line item.  |
| DensityRateShipmentSimpleResponse. <b>effectiveDate</b>         | string               | Always      | Tariff Effective Date (CCYYMMDD)   |
| DensityRateShipmentSimpleResponse. <b>errorCode</b>             | string               | Conditional | Returns code only if error exists.   |
| DensityRateShipmentSimpleResponse. <b>shipmentDateCCYYMMDD</b>  | string               | Always      | *Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| DensityRateShipmentSimpleResponse. <b>tariffName</b>            | string               | Always      | *Tariff name (8 characters)  |
| DensityRateShipmentSimpleResponse. <b>dimFactor</b>             | string               | Conditional | * If DimFactorUnits = "L" or "K", then the required DimFactor attribute value must be set to a value of 1 thru 9999.99. If DimFactorUnits = "I" or "C", then the required DimFactor attribute value must be set to a value of 1 thru 99999.9   |
| DensityRateShipmentSimpleResponse. <b>dimFactorUnits</b>        | string               | Conditional | * L=pounds/feet <sup>3</sup> ; K=kilograms/meters <sup>3</sup><br>I=inches <sup>3</sup> /pound; C=centimeters <sup>3</sup> /kilogram   |
| DensityRateShipmentSimpleResponse. <b>useDimMC</b>              | string               | Conditional | * (Y/N); "Y"=consider minimum charge during dimming application. "N"=do not use minimum charge during dimming application. Default value is "N".   |
| DensityRateShipmentSimpleResponse. <b>details</b>               | complex (repeatable) | Always      | Zero or more repetitions of Density Units, Pieces, Cube, Cube Units, Length, Width, Height, Dimension Units, Weight, Weight Units, Used Density, Used Cube, Used Weight, Rate, Charge and Error. (Maximum of 100 detail lines)   |
| DensityRateShipmentSimpleResponse. <b>details.density</b>       | string               | Conditional | *Required if Detail Type=DENSITY (Maximum value of 9999.99)  |
| DensityRateShipmentSimpleResponse. <b>details.densityUnits</b>  | string               | Conditional | *Required if Detail Type=DENSITY<br>L=pounds/feet <sup>3</sup> ; K=kilograms/meters <sup>3</sup>   |
| DensityRateShipmentSimpleResponse. <b>details.pieces</b>        | string               | Conditional | *Number of Pieces; Default is 1 (Maximum value of 999999)  |
| DensityRateShipmentSimpleResponse. <b>details.cube</b>          | string               | Conditional | *Required if Detail Type=CUBE (Maximum value 99999999999.9)  |
| DensityRateShipmentSimpleResponse. <b>details.cubeUnits</b>     | string               | Conditional | *Required if Detail Type=CUBE<br>F=feet <sup>3</sup> ; M=meters <sup>3</sup> ; I=inches <sup>3</sup> ; C=centimeters <sup>3</sup>  |
| DensityRateShipmentSimpleResponse. <b>details.length</b>        | string               | Conditional | *Required if Detail Type=LWH (Maximum value of 9999.99)  |

*(DensityRateShipmentSimple Output Continued)*

|  |        |             |  |
|--|--------|-------------|--|
| DensityRateShipmentSimpleResponse<br>.details. <b>width</b>          | string | Conditional | *Required if Detail Type=LWH<br>(Maximum value of 9999.99)   |
| DensityRateShipmentSimpleResponse<br>.details. <b>height</b>         | string | Conditional | *Required if Detail Type=LWH<br>(Maximum value of 9999.99)   |
| DensityRateShipmentSimpleResponse<br>.details. <b>dimensionUnits</b> | string | Conditional | Required if Detail Type=LWH, F=feet,<br>M=meters, I=inches, C=Centimeters  |
| DensityRateShipmentSimpleResponse<br>.details. <b>weight</b>         | string | Always      | * (Minimum value 1, Maximum value<br>999999) NOTE: If Detail Type=LWH or<br>Detail Type=CUBE, this must be the<br>total line item weight of ALL Pieces.<br>For 3 pieces, each weighing 100<br>pounds, the weight would be 300<br>pounds. This is done so the pallet<br>weight can be used. |
| DensityRateShipmentSimpleResponse<br>.details. <b>weightUnits</b>    | string | Always      | * L=pounds; K=kilograms  |
| DensityRateShipmentSimpleResponse<br>.details. <b>usedDensity</b>    | string | Always      | The density for the specified shipment<br>line (2 decimal places)  |
| DensityRateShipmentSimpleResponse<br>.details. <b>usedCube</b>       | string | Always      | The cube dimension for the specified<br>shipment line (1 decimal place)  |
| DensityRateShipmentSimpleResponse<br>.details. <b>usedWeight</b>     | string | Always      | The weight for the specified shipment<br>line (whole number)   |
| DensityRateShipmentSimpleResponse<br>.details. <b>rate</b>           | string | Always      | The rate for the specified shipment line<br>(2 decimal places)   |
| DensityRateShipmentSimpleResponse<br>.details. <b>charge</b>         | string | Always      | The charge for the shipment line (2<br>decimal places)   |
| DensityRateShipmentSimpleResponse<br>.details. <b>error</b>          | string | Conditional | Returns code only if error exists.   |

## 2.10 DensityRateShipment

### 2.10.1 Description

This service is used to rate a single shipment using density and weight. This service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.

## 2.10.2 Input

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:web="http://webservices.smc.com" xmlns:web1="http://web.density.smc.com">
  <soapenv:Header>
    <web:AuthenticationToken>
      <web:licenseKey> string </web:licenseKey>
      <web:password> string </web:password>
      <web:username> string </web:username>
    </web:AuthenticationToken>
  </soapenv:Header>
  <soapenv:Body>
    <web:DensityRateShipment>
      <web:DensityRateShipmentRequest>
        <web1:LTL_Surcharge> string </web1:LTL_Surcharge>
        <web1:TL_Surcharge> string </web1:TL_Surcharge>
        <web1:destinationCity> string </web1:destinationCity>
        <web1:destinationCountry> string </web1:destinationCountry>
        <web1:destinationPostalCode> string </web1:destinationPostalCode>
        <web1:destinationState> string </web1:destinationState>
        <web1:detailType> string </web1:detailType>
        <web1:details>
          <!--Zero or more repetitions:-->
          <web1:DensityRequestDetail>
            <web1:cube> string </web1:cube>
            <web1:cubeUnits> string </web1:cubeUnits>
            <web1:density> string </web1:density>
            <web1:densityUnits> string </web1:densityUnits>
            <web1:dimensionUnits> string </web1:dimensionUnits>
            <web1:height> string </web1:height>
            <web1:length> string </web1:length>
            <web1:pieces> string </web1:pieces>
            <web1:weight> string </web1:weight>
            <web1:weightUnits> string </web1:weightUnits>
            <web1:width> string </web1:width>
          </web1:DensityRequestDetail>
        </web1:details>
        <web1:dimFactor> string </web1:dimFactor>
        <web1:dimFactorUnits> string </web1:dimFactorUnits>
        <web1:discountApplication> string </web1:discountApplication>
        <web1:mcDiscount> string </web1:mcDiscount>
        <web1:orgDestToGateWayPointFlag> string </web1:orgDestToGateWayPointFlag>
        <web1:originCity> string </web1:originCity>
        <web1:originCountry> string </web1:originCountry>
        <web1:originPostalCode> string </web1:originPostalCode>
        <web1:originState> string </web1:originState>
        <web1:rateAdjustmentFactor> string </web1:rateAdjustmentFactor>
        <web1:shipmentDateCCYYMMDD> string </web1:shipmentDateCCYYMMDD>
        <web1:shipmentID> string </web1:shipmentID>
        <web1:stopAlternationWeight> string </web1:stopAlternationWeight>
        <web1:surchargeApplication> string </web1:surchargeApplication>
        <web1:tariffName> string </web1:tariffName>
        <web1:useDimMC> string </web1:useDimMC>
        <web1:useDiscounts> string </web1:useDiscounts>
        <web1:useSingleShipmentCharges> string </web1:useSingleShipmentCharges>
        <web1:userMinimumChargeFloor> string </web1:userMinimumChargeFloor>
        <web1:weightBreak_Discount_1> string </web1:weightBreak_Discount_1>
        <web1:weightBreak_Discount_10> string </web1:weightBreak_Discount_10>
        <web1:weightBreak_Discount_11> string </web1:weightBreak_Discount_11>
      </web:DensityRateShipmentRequest>
    </web:DensityRateShipment>
  </soapenv:Body>
</soapenv:Envelope>
```

(DensityRateShipment Input Continued)

```

<web1:weightBreak_Discount_2> string </web1:weightBreak_Discount_2>
<web1:weightBreak_Discount_3> string </web1:weightBreak_Discount_3>
<web1:weightBreak_Discount_4> string </web1:weightBreak_Discount_4>
<web1:weightBreak_Discount_5> string </web1:weightBreak_Discount_5>
<web1:weightBreak_Discount_6> string </web1:weightBreak_Discount_6>
<web1:weightBreak_Discount_7> string </web1:weightBreak_Discount_7>
<web1:weightBreak_Discount_8> string </web1:weightBreak_Discount_8>
<web1:weightBreak_Discount_9> string </web1:weightBreak_Discount_9>
</web:DensityRateShipmentRequest>
</web:DensityRateShipment>
</soapenv:Body>
</soapenv:Envelope>

```

sample

## DensityRateShipmentRequest

| Argument   | Type   | Required/<br>Optional | Description   |
|--|--------|-----------------------|---|
| DensityRateShipmentRequest<br><b>.shipmentDateCCYYMMDD</b>     | string | Required              | Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| DensityRateShipmentRequest<br><b>.originCountry</b>            | string | Required              | Origin Country: USA, MEX, CAN (3 alpha)   |
| DensityRateShipmentRequest<br><b>.originPostalCode</b>         | string | Required              | Origin Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.  |
| DensityRateShipmentRequest<br><b>.originCity</b>               | string | Optional              | Origin City (Maximum of 30 ascii characters)  |
| DensityRateShipmentRequest<br><b>.originState</b>              | string | Optional              | Origin State (maximum of 2 ascii characters; must comply with associated postal code)   |
| DensityRateShipmentRequest<br><b>.destinationCountry</b>       | string | Required              | Destination Country: USA, MEX, CAN (3 alpha)  |
| DensityRateShipmentRequest<br><b>.destinationPostalCode</b>    | string | Required              | Destination Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.   |
| DensityRateShipmentRequest<br><b>.destinationCity</b>          | string | Optional              | Destination City (Maximum of 30 ascii characters)   |
| DensityRateShipmentRequest<br><b>.destinationState</b>         | string | Optional              | Destination State (maximum of 2 ascii characters; must comply with associated postal code)  |
| DensityRateShipmentRequest<br><b>.useSingleShipmentCharges</b> | string | Optional              | (Y/N); "N" indicates the system should rate the bill as a multiple shipment. "Y" indicates the system should rate the bill as a single shipment. This field is only applicable when the shipment uses a tariff that uses single shipment charges. The default for this field is "N".  |
| DensityRateShipmentRequest<br><b>.rateAdjustmentFactor</b>     | string | Optional              | A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000   |
| DensityRateShipmentRequest<br><b>.useDiscounts</b>             | string | Optional              | (Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| DensityRateShipmentRequest<br><b>.discountApplication</b>      | string | Optional              | R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".  |

(DensityRateShipment Input Continued)

|   |        |          |   |
|---|--------|----------|---|
| DensityRateShipmentRequest<br><b>.rateAdjustmentFactor</b>      | string | Optional | A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. Default is 1.0000 |
| DensityRateShipmentRequest<br><b>.useDiscounts</b>              | string | Optional | (Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| DensityRateShipmentRequest<br><b>.discountApplication</b>       | string | Optional | R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".  |
| DensityRateShipmentRequest<br><b>.weightBreak_Discount_1</b>    | string | Optional | Weightbreak Discount 1 (Maximum value of 99.99)   |
| DensityRateShipmentRequest<br><b>.weightBreak_Discount_3</b>    | string | Optional | Weightbreak Discount 3 (Maximum value of 99.99)   |
| DensityRateShipmentRequest<br><b>.weightBreak_Discount_4</b>    | string | Optional | Weightbreak Discount 4 (Maximum value of 99.99)   |
| DensityRateShipmentRequest<br><b>.weightBreak_Discount_5</b>    | string | Optional | Weightbreak Discount 5 (Maximum value of 99.99)   |
| DensityRateShipmentRequest<br><b>.weightBreak_Discount_6</b>    | string | Optional | Weightbreak Discount 6 (Maximum value of 99.99)   |
| DensityRateShipmentRequest<br><b>.weightBreak_Discount_7</b>    | string | Optional | Weightbreak Discount 7 (Maximum value of 99.99)   |
| DensityRateShipmentRequest<br><b>.weightBreak_Discount_8</b>    | string | Optional | Weightbreak Discount 8 (Maximum value of 99.99)   |
| DensityRateShipmentRequest<br><b>.weightBreak_Discount_9</b>    | string | Optional | Weightbreak Discount 9 (Maximum value of 99.99)   |
| DensityRateShipmentRequest<br><b>.weightBreak_Discount_10</b>   | string | Optional | Weightbreak Discount 10 (Maximum value of 99.99)  |
| DensityRateShipmentRequest<br><b>.weightBreak_Discount_11</b>   | string | Optional | Weightbreak Discount 11 (Maximum value of 99.99)  |
| DensityRateShipmentRequest<br><b>.mcDiscount</b>                | string | Optional | Minimum Charge Discount (Maximum value of 99.99)  |
| DensityRateShipmentRequest<br><b>.userMinimumChargeFloor</b>    | string | Optional | Minimum floor charge entered by user. (Maximum value of 99999.99)   |
| DensityRateShipmentRequest<br><b>.LTL_Surcharge</b>             | string | Optional | LTL surcharge percentage (Maximum value 99.99)  |
| DensityRateShipmentRequest<br><b>.TL_Surcharge</b>              | string | Optional | TL surcharge percentage (Maximum value 99.99)   |
| DensityRateShipmentRequest<br><b>.surchargeApplication</b>      | string | Optional | G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges  |
| DensityRateShipmentRequest<br><b>.orgDestToGateWayPointFlag</b> | string | Optional | <i>Internal Use Only</i>  |
| DensityRateShipmentRequest<br><b>.shipmentID</b>                | string | Optional | Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)  |
| DensityRateShipmentRequest<br><b>.tariffName</b>                | string | Required | Tariff name (8 characters)  |
| DensityRateShipmentRequest<br><b>.stopAlternationWeight</b>     | string | Optional | Maximum weight to stop the rating alternation. (Maximum value of 999999)  |
| DensityRateShipmentRequest<br><b>.dimFactor</b>                 | string | Optional | If DimFactorUnits = "L" or "K", then the required DimFactor attribute value must be set to a value of 1 thru 9999.99. If DimFactorUnits = "I" or "C", then the required DimFactor attribute value must be set to a value of 1 thru 99999.9      |
| DensityRateShipmentRequest<br><b>.dimFactorUnits</b>            | string | Optional | L=pounds/feet <sup>3</sup> ; K=kilograms/meters <sup>3</sup><br>I=inches <sup>3</sup> /pound; C=centimeters <sup>3</sup> /kilogram  |
| DensityRateShipmentRequest<br><b>.useDimMC</b>                  | string | Optional | (Y/N); "Y"=consider minimum charge during dimming application. "N"=do not use minimum charge during dimming application. Default value is "N".  |
| DensityRateShipmentRequest<br><b>.detailType</b>                | string | Required | "DENSITY" = density and weight line item, "CUBE" = cube and weight line item, "LWH" = length, width, height and weight line item.   |

*(DensityRateShipment Input Continued)*

|   |                         |          |  |
|---|-------------------------|----------|--|
| DensityRateShipmentRequest<br>.details                | complex<br>(repeatable) | Required | Zero or more repetitions of Density Units, Pieces, Cube, Cube Units, Length, Width, Height, Dimension Units, Weight and Weight Units. (Maximum of 100 details lines)   |
| DensityRateShipmentRequest<br>.details.density        | string                  | Optional | Required if Detail Type=DENSITY<br>(Maximum value of 9999.99)  |
| DensityRateShipmentRequest<br>.details.densityUnits   | string                  | Optional | Required if Detail Type=DENSITY<br>L=pounds/feet <sup>3</sup> ; K=kilograms/meters <sup>3</sup>  |
| DensityRateShipmentRequest<br>.details.pieces         | string                  | Optional | Number of Pieces; Default is 1 (Maximum value of 999999)   |
| DensityRateShipmentRequest<br>.details.cube           | string                  | Optional | Required if Detail Type=CUBE<br>(Maximum value 999999999999.9)   |
| DensityRateShipmentRequest<br>.details.cubeUnits      | string                  | Optional | Required if Detail Type=CUBE<br>F=feet <sup>3</sup> ; M=meters <sup>3</sup> ; I=inches <sup>3</sup> ; C=centimeters <sup>3</sup>   |
| DensityRateShipmentRequest<br>.details.length         | string                  | Optional | Required if Detail Type=LWH<br>(Maximum value of 9999.99)  |
| DensityRateShipmentRequest<br>.details.width          | string                  | Optional | Required if Detail Type=LWH<br>(Maximum value of 9999.99)  |
| DensityRateShipmentRequest<br>.details.height         | string                  | Optional | Required if Detail Type=LWH<br>(Maximum value of 9999.99)  |
| DensityRateShipmentRequest<br>.details.dimensionUnits | string                  | Optional | Required if Detail Type=LWH<br>F=feet, M=meters, I=inches, C=Centimeters<br>(Minimum value 1, Maximum value 999999)<br>NOTE: If Detail Type=LWH or Detail Type=CUBE, this must be the total line item weight of ALL Pieces. For 3 pieces, each weighing 100 pounds, the weight would be 300 pounds. This is done so the pallet weight can be used. |
| DensityRateShipmentRequest<br>.details.weight         | string                  | Required |  |
| DensityRateShipmentRequest<br>.details.weightUnits    | string                  | Required | L=pounds; K=kilograms  |

\*See Quick Tip on page 20 for weightbreak notes

### 2.10.3 Output

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soap:Body>
    <ns1:DensityRateShipmentResponse xmlns:ns1="http://webservices.smc.com">
      <ns1:DensityRateShipmentResponse>
        <LHGrossCharge xmlns="http://web.density.smc.com"> string </LHGrossCharge>
        <LTL_Surcharge xmlns="http://web.density.smc.com"> string </LTL_Surcharge>
        <RBNO xmlns="http://web.density.smc.com"/>
        <TL_Surcharge xmlns="http://web.density.smc.com"> string </TL_Surcharge>
        <absoluteMCFloor xmlns="http://web.density.smc.com"> string </absoluteMCFloor>
        <actualWgt xmlns="http://web.density.smc.com"> string </actualWgt>
        <billedWgt xmlns="http://web.density.smc.com"> string </billedWgt>
        <deficitCharge xmlns="http://web.density.smc.com"> string </deficitCharge>
        <deficitCube xmlns="http://web.density.smc.com"> string </deficitCube>
        <deficitRate xmlns="http://web.density.smc.com"> string </deficitRate>
        <deficitWeight xmlns="http://web.density.smc.com"> string </deficitWeight>
        <destinationCity xmlns="http://web.density.smc.com"> string </destinationCity>
        <destinationCountry xmlns="http://web.density.smc.com"> string </destinationCountry>
        <destinationPostalCode xmlns="http://web.density.smc.com"> string </destinationPostalCode>
        <destinationState xmlns="http://web.density.smc.com"> string </destinationState>
        <detailType xmlns="http://web.density.smc.com"> string </detailType>
        <details xmlns="http://web.density.smc.com">
```

sample



(DensityRateShipment Output Continued)

```
<!--Zero or more repetitions:-->
<DensityResponseDetail>
  <charge/> string </charge>
  <cube/> string </cube>
  <cubeUnits/> string </cubeUnits>
  <density/> string </density>
  <densityUnits/> string </densityUnits>
  <dimensionUnits/> string </dimensionUnits>
  <error/> string </error>
  <height/> string </height>
  <length/> string </length>
  <pieces/> string </pieces>
  <rate/> string </rate>
  <usedCube/> string </usedCube>
  <usedDensity/> string </usedDensity>
  <usedWeight/> string </usedWeight>
  <weight/> string </weight>
  <weightUnits/> string </weightUnits>
  <width/> string </width>
</DensityResponseDetail>
</details>
<dimFactor xmlns="http://web.density.smc.com">string </dimFactor>
<dimFactorUnits xmlns="http://web.density.smc.com"> string </dimFactorUnits>
<discountAmount xmlns="http://web.density.smc.com"> string </discountAmount>
<discountApplication xmlns="http://web.density.smc.com"> string </discountApplication>
<discountPctUsed xmlns="http://web.density.smc.com"> string </discountPctUsed>
<effectiveDate xmlns="http://web.density.smc.com"/>
<errorCode xmlns="http://web.density.smc.com"> string </errorCode>
<mcDiscount xmlns="http://web.density.smc.com"> string </mcDiscount>
<minimumCharge xmlns="http://web.density.smc.com"> string </minimumCharge>
<orgDestToGateWayPointFlag xmlns="http://web.density.smc.com"> string </orgDestToGateWayPointFlag>
<originCity xmlns="http://web.density.smc.com"> string </originCity>
<originCountry xmlns="http://web.density.smc.com"> string </originCountry>
<originPostalCode xmlns="http://web.density.smc.com"> string </originPostalCode>
<originState xmlns="http://web.density.smc.com"> string </originState>
<rateAdjustmentFactor xmlns="http://web.density.smc.com"> string </rateAdjustmentFactor>
<rateApplication xmlns="http://web.density.smc.com"/>
<shipmentDateCCYYMMDD xmlns="http://web.density.smc.com"> string </shipmentDateCCYYMMDD>
<shipmentID xmlns="http://web.density.smc.com"> string </shipmentID>
<stopAlternationWeight xmlns="http://web.density.smc.com"> string </stopAlternationWeight>
<suffix xmlns="http://web.density.smc.com"/>
<surchargeAmount xmlns="http://web.density.smc.com"> string </surchargeAmount>
<surchargeApplication xmlns="http://web.density.smc.com"> string </surchargeApplication>
<surchargePercentUsed xmlns="http://web.density.smc.com"> string </surchargePercentUsed>
<tariffName xmlns="http://web.density.smc.com"> string </tariffName>
<tblno xmlns="http://web.density.smc.com"/>
<totalCharge xmlns="http://web.density.smc.com"> string </totalCharge>
<useDimMC xmlns="http://web.density.smc.com"> string </useDimMC>
<useDiscounts xmlns="http://web.density.smc.com"> string </useDiscounts>
<useSingleShipmentCharges xmlns="http://web.density.smc.com"> string </useSingleShipmentCharges>
<userMinimumChargeFloor xmlns="http://web.density.smc.com"> string </userMinimumChargeFloor>
<weightBreak_Discount_1 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_1>
<weightBreak_Discount_10 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_10>
<weightBreak_Discount_11 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_11>
<weightBreak_Discount_2 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_2>
<weightBreak_Discount_3 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_3>
<weightBreak_Discount_4 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_4>
<weightBreak_Discount_5 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_5>
<weightBreak_Discount_6 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_6>
<weightBreak_Discount_7 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_7>
<weightBreak_Discount_8 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_8>
<weightBreak_Discount_9 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_9>
</ns1:DensityRateShipmentResponse>
</ns1:DensityRateShipmentResponse>
</soap:Body>
</soap:Envelope>
```

sample

## DensityRateShipmentResponse

*\* indicates passed in the request*

| Return Value  | Type   | Returned    | Description  |
|---|--------|-------------|--|
| DensityRateShipmentResponse<br><b>.shipmentDateCCYYMMDD</b>     | string | Always      | *Shipment Date   |
| DensityRateShipmentResponse<br><b>.originPostalCode</b>         | string | Always      | *Origin Postal Code  |
| DensityRateShipmentResponse<br><b>.originCity</b>               | string | Conditional | *Origin City (Maximum of 30 ascii characters)  |
| DensityRateShipmentResponse<br><b>.originState</b>              | string | Always      | *Origin State (maximum of 2 ascii characters; must comply with associated postal code)   |
| DensityRateShipmentResponse<br><b>.originCountry</b>            | string | Always      | *Origin Country: USA, MEX, CAN (3 alpha)   |
| DensityRateShipmentResponse<br><b>.destinationPostalCode</b>    | string | Always      | *Destination Postal Code   |
| DensityRateShipmentResponse<br><b>.destinationCity</b>          | string | Conditional | *Destination City (Maximum of 30 ascii characters)   |
| DensityRateShipmentResponse<br><b>.destinationState</b>         | string | Always      | *Destination State (maximum of 2 ascii characters; must comply with associated postal code)  |
| DensityRateShipmentResponse<br><b>.destinationCountry</b>       | string | Always      | *Destination Country: USA, MEX, CAN (3 alpha)  |
| DensityRateShipmentResponse<br><b>.useSingleShipmentCharges</b> | string | Conditional | *(Y/N); "N" indicates the system should rate the bill as a multiple shipment. "Y" indicates the system should rate the bill as a single shipment. This field is only applicable when the shipment uses a tariff that uses single shipment charges. The default for this field is "N".  |
| DensityRateShipmentResponse<br><b>.rateAdjustmentFactor</b>     | string | Conditional | *A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 |
| DensityRateShipmentResponse<br><b>.useDiscounts</b>             | string | Conditional | *(Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| DensityRateShipmentResponse<br><b>.discountApplication</b>      | string | Conditional | * R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".   |
| DensityRateShipmentResponse<br><b>.weightBreak_Discount_1</b>   | string | Conditional | Weightbreak Discount 1 (Maximum value of 99.99)  |
| DensityRateShipmentResponse<br><b>.weightBreak_Discount_2</b>   | string | Conditional | Weightbreak Discount 2 (Maximum value of 99.99)  |
| DensityRateShipmentResponse<br><b>.weightBreak_Discount_3</b>   | string | Conditional | Weightbreak Discount 3 (Maximum value of 99.99)  |
| DensityRateShipmentResponse<br><b>.weightBreak_Discount_4</b>   | string | Conditional | Weightbreak Discount 4 (Maximum value of 99.99)  |
| DensityRateShipmentResponse<br><b>.weightBreak_Discount_5</b>   | string | Conditional | Weightbreak Discount 5 (Maximum value of 99.99)  |
| DensityRateShipmentResponse<br><b>.weightBreak_Discount_6</b>   | string | Conditional | Weightbreak Discount 6 (Maximum value of 99.99)  |
| DensityRateShipmentResponse<br><b>.weightBreak_Discount_7</b>   | string | Conditional | Weightbreak Discount 7 (Maximum value of 99.99)  |
| DensityRateShipmentResponse<br><b>.weightBreak_Discount_8</b>   | string | Conditional | Weightbreak Discount 8 (Maximum value of 99.99)  |
| DensityRateShipmentResponse<br><b>.weightBreak_Discount_9</b>   | string | Conditional | Weightbreak Discount 9 (Maximum value of 99.99)  |

*(DensityRateShipment Output Continued)*

|  |        |             |   |
|--|--------|-------------|---|
| DensityRateShipmentResponse<br><b>.weightBreak_Discount_10</b> | string | Conditional | Weightbreak Discount 10 (Maximum value of 99.99)  |
| DensityRateShipmentResponse<br><b>.weightBreak_Discount_11</b> | string | Conditional | Weightbreak Discount 11 (Maximum value of 99.99)  |
| DensityRateShipmentResponse<br><b>.mcDiscount</b>              | string | Conditional | *Minimum Charge Discount for the shipment (2 decimal places)  |
| DensityRateShipmentResponse<br><b>.userMinimumChargeFloor</b>  | string | Conditional | Minimum floor charge entered by user. (Maximum value of 99999.99)   |
| DensityRateShipmentResponse<br><b>.LTL_Surcharge</b>           | string | Conditional | *LTL surcharge percentage (Maximum value 99.99)   |
| DensityRateShipmentResponse<br><b>.TL_Surcharge</b>            | string | Conditional | *TL Surcharge percentage (Maximum value 99.99)  |
| DensityRateShipmentResponse<br><b>.surchargeApplication</b>    | string | Conditional | * G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges                      |
| DensityRateShipmentResponse<br><b>.stopAlternationWeight</b>   | string | Conditional | * Maximum weight to stop the rating alternation. (Maximum value of 999999)  |
| DensityRateShipmentResponse<br><b>.detailType</b>              | string | Always      | **"DENSITY" = density and weight line item, "CUBE" = cube and weight line item, "LWH" = length, width, height and weight line item. |
| DensityRateShipmentResponse<br><b>.surchargePercentUsed</b>    | string | Always      | Surcharge Percent Used (2 decimal places)   |
| DensityRateShipmentResponse<br><b>.surchargeAmount</b>         | string | Always      | Surcharge Amount (2 decimal places)   |
| DensityRateShipmentResponse<br><b>.errorCode</b>               | string | Conditional | Returns code only if error exists.  |
| DensityRateShipmentResponse<br><b>.tblno</b>                   | string | Always      | The table number from the applicable tariff for the origin/destination postal code pair.  |
| DensityRateShipmentResponse<br><b>.RBNO</b>                    | string | Always      | The rate basis number from the applicable tariff for the origin/destination postal code pair.                                       |
| DensityRateShipmentResponse<br><b>.suffix</b>                  | string | Always      | The suffix from the applicable tariff for the origin/destination postal code pair.  |
| DensityRateShipmentResponse<br><b>.actualWgt</b>               | string | Always      | The real weight of the shipment, not including any applicable deficit weight (whole number)   |
| DensityRateShipmentResponse<br><b>.billedWgt</b>               | string | Always      | The weight at which the shipment is rated; Actual Weight or Actual Weight plus Deficit Weight (whole number)                        |
| DensityRateShipmentResponse<br><b>.LHGrossCharge</b>           | string | Always      | Line Haul Gross Charge Amount for the shipment (no discounts or accessorials) (2 decimal places)                                    |
| DensityRateShipmentResponse<br><b>.minimumCharge</b>           | string | Conditional | Minimum Charge Amount for the shipment (2 decimal places)   |
| DensityRateShipmentResponse<br><b>.absoluteMCFloor</b>         | string | Conditional | Absolute Minimum Charge amount for the shipment   |
| DensityRateShipmentResponse<br><b>.deficitRate</b>             | string | Conditional | The rate for the deficit weight/density (2 decimal places)  |
| DensityRateShipmentResponse<br><b>.deficitCube</b>             | string | Conditional | The cube for the deficit weight (1 decimal place)   |
| DensityRateShipmentResponse<br><b>.deficitWeight</b>           | string | Conditional | The amount of additional weight necessary for the use of lower rates (whole number)   |
| DensityRateShipmentResponse<br><b>.deficitCharge</b>           | string | Conditional | The charge for deficit weight, if any (2 decimal places)  |
| DensityRateShipmentResponse<br><b>.totalCharge</b>             | string | Always      | The NET charge for the shipment - Gross charge plus accessorial charges and applied discounts (2 decimal places)                    |
| DensityRateShipmentResponse<br><b>.discountPctUsed</b>         | string | Always      | The percentage used in the rating processes based on the Billed Weight. (2 decimal places)  |
| DensityRateShipmentResponse<br><b>.discountAmount</b>          | string | Always      | A dollar and cents amount of the calculated Discount.   |
| DensityRateShipmentResponse<br><b>.shipmentID</b>              | string | Conditional | *Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)                 |
| DensityRateShipmentResponse<br><b>.tariffName</b>              | string | Always      | *Tariff name (8 characters)   |
| DensityRateShipmentResponse<br><b>.effectiveDate</b>           | string | Always      | Tariff Effective Date (CCYYMMDD)  |

(DensityRateShipment Output Continued)

|   |                         |             |  |
|---|-------------------------|-------------|--|
| DensityRateShipmentResponse<br>.rateApplication           | string                  | Always      | R = Rated; M = Minimum charge applied;<br>F = Floor applied; D = Dim charge applied  |
| DensityRateShipmentResponse<br>.orgDestToGatewayPointFlag | string                  | Conditional | <i>Internal Use Only</i>   |
| DensityRateShipmentResponse<br>.dimFactor                 | string                  | Conditional | If DimFactorUnits = "L" or "K", then the required DimFactor attribute value must be set to a value of 1 thru 9999.99. If DimFactorUnits = "I" or "C", then the required DimFactor attribute value must be set to a value of 1 thru 99999.9                               |
| DensityRateShipmentResponse<br>.dimFactorUnits            | string                  | Conditional | * L=pounds/feet <sup>3</sup> ; K=kilograms/meters <sup>3</sup><br>I=inches <sup>3</sup> /pound; C=centimeters <sup>3</sup> /kilogram   |
| DensityRateShipmentResponse<br>.useDimMC                  | string                  | Conditional | *(Y/N); "Y"=consider minimum charge during dimming application. "N"=do not use minimum charge during dimming application. Default value is "N".  |
| DensityRateShipmentResponse<br>.details                   | complex<br>(repeatable) | Always      | Zero or more repetitions of Density Units, Pieces, Cube, Cube Units, Length, Width, Height, Dimension Units, Weight, Weight Units, Rate, Charge and Error. (Maximum of 100 detail lines)   |
| DensityRateShipmentResponse<br>.details.density           | string                  | Conditional | *Required if Detail Type=DENSITY<br>(Maximum value of 9999.99)   |
| DensityRateShipmentResponse<br>.details.densityUnits      | string                  | Conditional | *Required if Detail Type=DENSITY<br>L=pounds/feet <sup>3</sup> ; K=kilograms/meters <sup>3</sup>   |
| DensityRateShipmentResponse<br>.details.pieces            | string                  | Conditional | *Number of Pieces; Default is 1 (Maximum value 999999)   |
| DensityRateShipmentResponse<br>.details.cube              | string                  | Conditional | *Required if Detail Type=CUBE<br>(Maximum value 99999999999.9)   |
| DensityRateShipmentResponse<br>.details.cubeUnits         | string                  | Conditional | *Required if Detail Type=CUBE<br>F=feet <sup>3</sup> ; M=meters <sup>3</sup> ; I=inches <sup>3</sup> ; C=centimeters <sup>3</sup>  |
| DensityRateShipmentResponse<br>.details.length            | string                  | Conditional | *Required if Detail Type=LWH<br>(Maximum value of 9999.99)   |
| DensityRateShipmentResponse<br>.details.width             | string                  | Conditional | *Required if Detail Type=LWH<br>(Maximum value of 9999.99)   |
| DensityRateShipmentResponse<br>.details.height            | string                  | Conditional | *Required if Detail Type=LWH<br>(Maximum value of 9999.99)   |
| DensityRateShipmentResponse<br>.details.dimensionUnits    | string                  | Conditional | Required if Detail Type=LWH<br>F=feet, M=meters, I=inches, C=Centimeters   |
| DensityRateShipmentResponse<br>.details.weight            | string                  | Always      | * (Minimum value 1, Maximum value 999999)<br>NOTE: If Detail Type=LWH or Detail Type=CUBE, this must be the total line item weight of ALL Pieces. For 3 pieces, each weighing 100 pounds, the weight would be 300 pounds. This is done so the pallet weight can be used. |
| DensityRateShipmentResponse<br>.details.weightUnits       | string                  | Always      | * L=pounds; K=kilograms  |
| DensityRateShipmentResponse<br>.details.usedDensity       | string                  | Always      | The density for the specified shipment line (2 decimal places)   |
| DensityRateShipmentResponse<br>.details.usedCube          | string                  | Always      | The cube dimension for the specified shipment line (1 decimal place)   |
| DensityRateShipmentResponse<br>.details.usedWeight        | string                  | Always      | The weight for the specified shipment line (whole number)  |
| DensityRateShipmentResponse<br>.details.rate              | string                  | Always      | The rate for the specified shipment line (2 decimal places)  |
| DensityRateShipmentResponse<br>.details.charge            | string                  | Always      | The charge for the shipment line (2 decimal places)  |
| DensityRateShipmentResponse<br>.details.error             | string                  | Conditional | Returns code only if error exists.   |

## 2.11 DensityRateShipmentMultiple

### 2.11.1 Definition

This service is used to rate multiple shipments in a single request using density and weight. The service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.

### 2.11.2 Input

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:web="http://webservices.smc.com" xmlns:web1="http://web.density.smc.com">
  <soapenv:Header>
    <web:AuthenticationToken>
      <web:licenseKey> string </web:licenseKey>
      <web:password> string </web:password>
      <web:username> string </web:username>
    </web:AuthenticationToken>
  </soapenv:Header>
  <soapenv:Body>
    <web:DensityRateShipmentMultiple>
      <web:DensityRateShipmentMultipleRequest>
        <!--Zero or more repetitions:-->
        <web1:DensityRateShipmentRequest>
          <web1:LTL_Surcharge> string </web1:LTL_Surcharge>
          <web1:TL_Surcharge> string </web1:TL_Surcharge>
          <web1:destinationCity> string </web1:destinationCity>
          <web1:destinationCountry> string </web1:destinationCountry>
          <web1:destinationPostalCode> string </web1:destinationPostalCode>
          <web1:destinationState> string </web1:destinationState>
          <web1:detailType> string </web1:detailType>
          <web1:details>
            <!--Zero or more repetitions:-->
            <web1:DensityRequestDetail>
              <web1:cube> string </web1:cube>
              <web1:cubeUnits> string </web1:cubeUnits>
              <web1:density> string </web1:density>
              <web1:densityUnits> string </web1:densityUnits>
              <web1:dimensionUnits> string </web1:dimensionUnits>
              <web1:height> string </web1:height>
              <web1:length> string </web1:length>
              <web1:pieces> string </web1:pieces>
              <web1:weight> string </web1:weight>
              <web1:weightUnits> string </web1:weightUnits>
              <web1:width> string </web1:width>
            </web1:DensityRequestDetail>
          </web1:details>
          <web1:dimFactor> string </web1:dimFactor>
          <web1:dimFactorUnits> string </web1:dimFactorUnits>
          <web1:discountApplication> string </web1:discountApplication>
          <web1:mcDiscount> string </web1:mcDiscount>
          <web1:orgDestToGateWayPointFlag> string </web1:orgDestToGateWayPointFlag>
          <web1:originCity> string </web1:originCity>
          <web1:originCountry> string </web1:originCountry>
          <web1:originPostalCode> string </web1:originPostalCode>
          <web1:originState> string </web1:originState>
          <web1:rateAdjustmentFactor> string </web1:rateAdjustmentFactor>
        </web1:DensityRateShipmentRequest>
      </web:DensityRateShipmentMultipleRequest>
    </web:DensityRateShipmentMultiple>
  </soapenv:Body>
</soapenv:Envelope>
```

(DensityRateShipmentMultiple Input Continued)

```
<web1:shipmentDateCCYYMMDD> string </web1:shipmentDateCCYYMMDD>
<web1:shipmentID> string </web1:shipmentID>
<web1:stopAlternationWeight> string </web1:stopAlternationWeight>
<web1:surchargeApplication> string </web1:surchargeApplication>
<web1:tariffName> string </web1:tariffName>
<web1:useDimMC> string </web1:useDimMC>
<web1:useDiscounts> string </web1:useDiscounts>
<web1:useSingleShipmentCharges> string </web1:useSingleShipmentCharges>
<web1:userMinimumChargeFloor> string </web1:userMinimumChargeFloor>
<web1:weightBreak_Discount_1> string </web1:weightBreak_Discount_1>
<web1:weightBreak_Discount_10> string </web1:weightBreak_Discount_10>
<web1:weightBreak_Discount_11> string </web1:weightBreak_Discount_11>
<web1:weightBreak_Discount_2> string </web1:weightBreak_Discount_2>
<web1:weightBreak_Discount_3> string </web1:weightBreak_Discount_3>
<web1:weightBreak_Discount_4> string </web1:weightBreak_Discount_4>
<web1:weightBreak_Discount_5> string </web1:weightBreak_Discount_5>
<web1:weightBreak_Discount_6> string </web1:weightBreak_Discount_6>
<web1:weightBreak_Discount_7> string </web1:weightBreak_Discount_7>
<web1:weightBreak_Discount_8> string </web1:weightBreak_Discount_8>
<web1:weightBreak_Discount_9> string </web1:weightBreak_Discount_9>
</web1:DensityRateShipmentRequest>
</web:DensityRateShipmentMultipleRequest>
</web:DensityRateShipmentMultiple>
</soapenv:Body>
</soapenv:Envelope>
```

sample

DensityRateShipmentMultipleRequest

| Argument   | Type                    | Required/<br>Optional | Description   |
|--|-------------------------|-----------------------|---|
| DensityRateShipmentMultipleRequest                           | complex<br>(repeatable) | Required              | Zero or more repetitions  |
| DensityRateShipmentMultipleRequest<br>.shipmentDateCCYYMMDD  | string                  | Required              | Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| DensityRateShipmentMultipleRequest<br>.originCountry         | string                  | Required              | Origin Country: USA, MEX, CAN (3 alpha)   |
| DensityRateShipmentMultipleRequest<br>.originPostalCode      | string                  | Required              | Origin Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.  |
| DensityRateShipmentMultipleRequest<br>.originCity            | string                  | Optional              | Origin City (Maximum of 60 ascii characters)  |
| DensityRateShipmentMultipleRequest<br>.originState           | string                  | Optional              | Origin State (maximum of 2 ascii characters; must comply with associated postal code)   |
| DensityRateShipmentMultipleRequest<br>.destinationCountry    | string                  | Required              | Destination Country: USA, MEX, CAN (3 alpha)  |
| DensityRateShipmentMultipleRequest<br>.destinationPostalCode | string                  | Required              | Destination Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.   |
| DensityRateShipmentMultipleRequest<br>.destinationCity       | string                  | Optional              | Destination City (maximum of 60 ascii characters)   |

*(DensityRateShipmentMultiple Input Continued)*

|   |        |          |   |
|---|--------|----------|---|
| DensityRateShipmentMultipleRequest<br><b>.destinationState</b>          | string | Optional | Destination State (maximum of 2 ascii characters; must comply with associated postal code)  |
| DensityRateShipmentMultipleRequest<br><b>.useSingleShipmentCharges</b>  | string | Optional | (Y/N); "N" indicates the system should rate the bill as a multiple shipment. "Y" indicates the system should rate the bill as a single shipment. This field is only applicable when the shipment uses a tariff that uses single shipment charges. The default for this field is "N".  |
| DensityRateShipmentMultipleRequest<br><b>.rateAdjustmentFactor</b>      | string | Optional | A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 (Maximum value of 9.9999) |
| DensityRateShipmentMultipleRequest<br><b>.useDiscounts</b>              | string | Optional | (Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| DensityRateShipmentMultipleRequest<br><b>.discountApplication</b>       | string | Optional | R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".  |
| DensityRateShipmentMultipleRequest<br><b>.weightBreak_Discount_1</b>    | string | Optional | Weightbreak Discount 1 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleRequest<br><b>.weightBreak_Discount_2</b>    | string | Optional | Weightbreak Discount 2 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleRequest<br><b>.weightBreak_Discount_3</b>    | string | Optional | Weightbreak Discount 3 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleRequest<br><b>.weightBreak_Discount_4</b>    | string | Optional | Weightbreak Discount 4 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleRequest<br><b>.weightBreak_Discount_5</b>    | string | Optional | Weightbreak Discount 5 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleRequest<br><b>.weightBreak_Discount_6</b>    | string | Optional | Weightbreak Discount 6 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleRequest<br><b>.weightBreak_Discount_7</b>    | string | Optional | Weightbreak Discount 7 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleRequest<br><b>.weightBreak_Discount_8</b>    | string | Optional | Weightbreak Discount 8 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleRequest<br><b>.weightBreak_Discount_9</b>    | string | Optional | Weightbreak Discount 9 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleRequest<br><b>.weightBreak_Discount_10</b>   | string | Optional | Weightbreak Discount 10 (Maximum value of 99.99)  |
| DensityRateShipmentMultipleRequest<br><b>.weightBreak_Discount_11</b>   | string | Optional | Weightbreak Discount 11 (Maximum value of 99.99)  |
| DensityRateShipmentMultipleRequest<br><b>.mcDiscount</b>                | string | Optional | Minimum Charge Discount (Maximum value of 99.99)  |
| DensityRateShipmentMultipleRequest<br><b>.userMinimumChargeFloor</b>    | string | Optional | Minimum floor charge entered by user. (Maximum value of 99999.99)   |
| DensityRateShipmentMultipleRequest<br><b>.LTL_Surcharge</b>             | string | Optional | LTL surcharge percentage (Maximum value 99.99)  |
| DensityRateShipmentMultipleRequest<br><b>.TL_Surcharge</b>              | string | Optional | TL Surcharge percentage (Maximum value 99.99)   |
| DensityRateShipmentMultipleRequest<br><b>.surchargeApplication</b>      | string | Optional | G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges  |
| DensityRateShipmentMultipleRequest<br><b>.orgDestToGateWayPointFlag</b> | string | Optional | <i>Internal Use Only</i>  |
| DensityRateShipmentMultipleRequest<br><b>.shipmentID</b>                | string | Optional | Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)  |
| DensityRateShipmentMultipleRequest<br><b>.tariffName</b>                | string | Required | Tariff name (8 characters)  |
| DensityRateShipmentMultipleRequest<br><b>.stopAlternationWeight</b>     | string | Optional | Maximum weight to stop the rating alternation. (Maximum value of 999999)  |

*(DensityRateShipmentMultiple Input Continued)*

|   |                         |          |  |
|---|-------------------------|----------|--|
| DensityRateShipmentMultipleRequest<br>.dimFactor              | string                  | Optional | If DimFactorUnits = "L" or "K", then the required DimFactor attribute value must be set to a value of 1 thru 9999.99. If DimFactorUnits = "I" or "C", then the required DimFactor attribute value must be set to a value of 1 thru 99999.9                             |
| DensityRateShipmentMultipleRequest<br>.dimFactorUnits         | string                  | Required | L=pounds/feet <sup>3</sup> ; K=kilograms/meters <sup>3</sup><br>I=inches <sup>3</sup> /pound; C=centimeters <sup>3</sup> /kilogram   |
| DensityRateShipmentMultipleRequest<br>.useDimMC               | string                  | Optional | (Y/N); "Y"=consider minimum charge during dimming application. "N"=do not use minimum charge during dimming application. Default value is "N".   |
| DensityRateShipmentMultipleRequest<br>.detailType             | string                  | Required | "DENSITY" = density and weight line item, "CUBE" = cube and weight line item, "LWH" = length, width, height and weight line item.  |
| DensityRateShipmentMultipleRequest<br>.details                | complex<br>(repeatable) | Required | Zero or more repetitions of Density Units, Pieces, Cube, Cube Units, Length, Width, Height, Dimension Units, Weight and Weight Units   |
| DensityRateShipmentMultipleRequest<br>.details.density        | string                  | Optional | Required if Detail Type=DENSITY<br>(Maximum value of 9999.99)  |
| DensityRateShipmentMultipleRequest<br>.details.pieces         | string                  | Optional | Number of Pieces; Default is 1 (Maximum value 999999)  |
| DensityRateShipmentMultipleRequest<br>.details.cube           | string                  | Optional | Required if Detail Type=CUBE<br>(Maximum value 99999999999.9)  |
| DensityRateShipmentMultipleRequest<br>.details.cubeUnits      | string                  | Optional | Required if Detail Type=CUBE<br>F=feet <sup>3</sup> ; M=meters <sup>3</sup> ; I=inches <sup>3</sup> ; C=centimeters <sup>3</sup>   |
| DensityRateShipmentMultipleRequest<br>.details.length         | string                  | Optional | Required if Detail Type=LWH<br>(Maximum value of 9999.99)  |
| DensityRateShipmentMultipleRequest<br>.details.width          | string                  | Optional | Required if Detail Type=LWH<br>(Maximum value of 9999.99)  |
| DensityRateShipmentMultipleRequest<br>.details.height         | string                  | Optional | Required if Detail Type=LWH<br>(Maximum value of 9999.99)  |
| DensityRateShipmentMultipleRequest<br>.details.dimensionUnits | string                  | Optional | Required if Detail Type=LWH<br>F=feet, M=meters, I=inches, C=Centimeters   |
| DensityRateShipmentMultipleRequest<br>.details.weight         | string                  | Required | (Minimum value 1, Maximum value 999999)<br>NOTE: If Detail Type=LWH or Detail Type=CUBE, this must be the total line item weight of ALL Pieces. For 3 pieces, each weighing 100 pounds, the weight would be 300 pounds. This is done so the pallet weight can be used. |
| DensityRateShipmentMultipleRequest<br>.details.weightUnits    | string                  | Required | L=pounds; K=kilograms  |

\*See Quick Tip on page 20 for weightbreak notes



### 2.11.3 Output

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soap:Body>
    <ns1:DensityRateShipmentMultipleResponse xmlns:ns1="http://webservices.smc.com">
      <ns1:DensityRateShipmentMultipleResponse>
        <ns2:DensityRateShipmentResponse xmlns:ns2="http://web.density.smc.com">
          <ns2:DensityRateShipmentResponse xmlns:ns2="http://web.density.smc.com">
            <LHGrossCharge xmlns="http://web.density.smc.com">string</LHGrossCharge>
            <LTL_Surcharge xmlns="http://web.density.smc.com">string</LTL_Surcharge>
            <RBNO xmlns="http://web.density.smc.com"/>
            <TL_Surcharge xmlns="http://web.density.smc.com">string</TL_Surcharge>
            <absoluteMCFloor xmlns="http://web.density.smc.com">string</absoluteMCFloor>
            <actualWgt xmlns="http://web.density.smc.com">string</actualWgt>
            <billedWgt xmlns="http://web.density.smc.com">string</billedWgt>
            <deficitCharge xmlns="http://web.density.smc.com">string</deficitCharge>
            <deficitCube xmlns="http://web.density.smc.com">string</deficitCube>
            <deficitRate xmlns="http://web.density.smc.com">string</deficitRate>
            <deficitWeight xmlns="http://web.density.smc.com">string</deficitWeight>
            <destinationCity xmlns="http://web.density.smc.com">string</destinationCity>
            <destinationCountry xmlns="http://web.density.smc.com">string</destinationCountry>
            <destinationPostalCode xmlns="http://web.density.smc.com">string</destinationPostalCode>
            <destinationState xmlns="http://web.density.smc.com">string</destinationState>
            <detailType xmlns="http://web.density.smc.com">string</detailType>
            <details xmlns="http://web.density.smc.com">
              <!--Zero or more repetitions:-->
              <DensityResponseDetail>
                <charge/>string</charge>
                <cube>string</cube>
                <cubeUnits>string</cubeUnits>
                <density>string</density>
                <densityUnits>string</densityUnits>
                <dimensionUnits>string</dimensionUnits>
                <error>string</error>
                <height>string</height>
                <length>string</length>
                <pieces>string</pieces>
                <rate/>string</rate>
                <usedCube/>string</usedCube>
                <usedDensity/>string</usedDensity>
                <usedWeight/>string</usedWeight>
                <weight>string</weight>
                <weightUnits>string</weightUnits>
                <width>string</width>
              </DensityResponseDetail>
            </details>
            <dimFactor xmlns="http://web.density.smc.com">string</dimFactor>
            <dimFactorUnits xmlns="http://web.density.smc.com">string</dimFactorUnits>
            <discountAmount xmlns="http://web.density.smc.com">string</discountAmount>
            <discountApplication xmlns="http://web.density.smc.com">string</discountApplication>
            <discountPctUsed xmlns="http://web.density.smc.com">string</discountPctUsed>
            <effectiveDate xmlns="http://web.density.smc.com"/>
            <errorCode xmlns="http://web.density.smc.com">string</errorCode>
            <mcDiscount xmlns="http://web.density.smc.com">string</mcDiscount>
            <minimumCharge xmlns="http://web.density.smc.com">string</minimumCharge>
            <orgDestToGateWayPointFlag xmlns="http://web.density.smc.com">string</orgDestToGateWayPointFlag>
            <originCity xmlns="http://web.density.smc.com">string</originCity>
            <originCountry xmlns="http://web.density.smc.com">string</originCountry>
            <originPostalCode xmlns="http://web.density.smc.com">string</originPostalCode>
            <originState xmlns="http://web.density.smc.com">string</originState>
            <rateAdjustmentFactor xmlns="http://web.density.smc.com">string</rateAdjustmentFactor>
            <rateApplication xmlns="http://web.density.smc.com"/>
            <shipmentDateCCYYMMDD xmlns="http://web.density.smc.com">string</shipmentDateCCYYMMDD>
            <shipmentID xmlns="http://web.density.smc.com">string</shipmentID>
            <stopAlternationWeight xmlns="http://web.density.smc.com">string</stopAlternationWeight>
          </ns2:DensityRateShipmentResponse>
        </ns2:DensityRateShipmentResponse>
      </ns1:DensityRateShipmentMultipleResponse>
    </ns1:DensityRateShipmentMultipleResponse>
  </soap:Body>
</soap:Envelope>
```

sample

(DensityRateShipmentMultiple Output Continued)

```

<suffix xmlns="http://web.density.smc.com"/>
<surchargeAmount xmlns="http://web.density.smc.com"> string </surchargeAmount>
<surchargeApplication xmlns="http://web.density.smc.com"> string </surchargeApplication>
<surchargePercentUsed xmlns="http://web.density.smc.com"> string </surchargePercentUsed>
<tariffName xmlns="http://web.density.smc.com"> string </tariffName>
<tblno xmlns="http://web.density.smc.com"/>
<totalCharge xmlns="http://web.density.smc.com"> string </totalCharge>
<useDimMC xmlns="http://web.density.smc.com"> string </useDimMC>
<useDiscounts xmlns="http://web.density.smc.com"> string </useDiscounts>
<useSingleShipmentCharges xmlns="http://web.density.smc.com"> string </useSingleShipmentCharges>
<userMinimumChargeFloor xmlns="http://web.density.smc.com"> string </userMinimumChargeFloor>
<weightBreak_Discount_1 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_1>
<weightBreak_Discount_10 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_10>
<weightBreak_Discount_11 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_11>
<weightBreak_Discount_2 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_2>
<weightBreak_Discount_3 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_3>
<weightBreak_Discount_4 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_4>
<weightBreak_Discount_5 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_5>
<weightBreak_Discount_6 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_6>
<weightBreak_Discount_7 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_7>
<weightBreak_Discount_8 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_8>
<weightBreak_Discount_9 xmlns="http://web.density.smc.com"> string </weightBreak_Discount_9>
</ns2:DensityRateShipmentResponse>
</ns1:DensityRateShipmentMultipleResponse>
</ns1:DensityRateShipmentMultipleResponse>
</soap:Body>
</soap:Envelope>

```

sample

## DensityRateShipmentMultipleResponse

\* indicates passed in the request

| Return Value  | Type                 | Returned    | Description  |
|---|----------------------|-------------|--|
| DensityRateShipmentMultipleResponse                           | complex (repeatable) | Always      | Zero or more repetitions   |
| DensityRateShipmentMultipleResponse<br>.shipmentDateCCYYMMDD  | string               | Always      | *Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| DensityRateShipmentMultipleResponse<br>.originPostalCode      | string               | Always      | *Origin Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No dashes or spaces allowed.  |
| DensityRateShipmentMultipleResponse<br>.originCity            | string               | Conditional | *Origin City (Maximum of 60 ascii characters)  |
| DensityRateShipmentMultipleResponse<br>.originState           | string               | Conditional | *Origin State (maximum of 2 ascii characters; must comply with associated postal code)   |
| DensityRateShipmentMultipleResponse<br>.originCountry         | string               | Always      | *Origin Country: USA, MEX, CAN (3 alpha)   |
| DensityRateShipmentMultipleResponse<br>.destinationPostalCode | string               | Always      | *Destination Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters.  |
| DensityRateShipmentMultipleResponse<br>.destinationCity       | string               | Conditional | *Destination City (Maximum of 60 ascii characters)   |
| DensityRateShipmentMultipleResponse<br>.destinationState      | string               | Conditional | *Destination State (maximum of 2 ascii characters; must comply with associated postal code)  |
| DensityRateShipmentMultipleResponse<br>.destinationCountry    | string               | Always      | *Destination Country: USA, MEX, CAN (3 alpha)  |

*(DensityRateShipmentMultiple Output Continued)*

|   |        |             |   |
|---|--------|-------------|---|
| DensityRateShipmentMultipleResponse<br><b>.useSingleShipmentCharges</b> | string | Conditional | *(Y/N); "N" indicates the system should rate the bill as a multiple shipment. "Y" indicates the system should rate the bill as a single shipment. This field is only applicable when the shipment uses a tariff that uses single shipment charges. The default for this field is "N".   |
| DensityRateShipmentMultipleResponse<br><b>.rateAdjustmentFactor</b>     | string | Conditional | *A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 (Maximum value of 9.999) |
| DensityRateShipmentMultipleResponse<br><b>.useDiscounts</b>             | string | Conditional | *(Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".  |
| DensityRateShipmentMultipleResponse<br><b>.discountApplication</b>      | string | Conditional | * R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".  |
| DensityRateShipmentMultipleResponse<br><b>.weightBreak_Discount_1</b>   | string | Conditional | Weightbreak Discount 1 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleResponse<br><b>.weightBreak_Discount_2</b>   | string | Conditional | Weightbreak Discount 2 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleResponse<br><b>.weightBreak_Discount_3</b>   | string | Conditional | Weightbreak Discount 3 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleResponse<br><b>.weightBreak_Discount_4</b>   | string | Conditional | Weightbreak Discount 4 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleResponse<br><b>.weightBreak_Discount_5</b>   | string | Conditional | Weightbreak Discount 5 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleResponse<br><b>.weightBreak_Discount_6</b>   | string | Conditional | Weightbreak Discount 6 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleResponse<br><b>.weightBreak_Discount_7</b>   | string | Conditional | Weightbreak Discount 7 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleResponse<br><b>.weightBreak_Discount_8</b>   | string | Conditional | Weightbreak Discount 8 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleResponse<br><b>.weightBreak_Discount_9</b>   | string | Conditional | Weightbreak Discount 9 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleResponse<br><b>.weightBreak_Discount_10</b>  | string | Conditional | Weightbreak Discount 10 (Maximum value of 99.99)  |
| DensityRateShipmentMultipleResponse<br><b>.weightBreak_Discount_11</b>  | string | Conditional | Weightbreak Discount 11 (Maximum value of 99.99)  |
| DensityRateShipmentMultipleResponse<br><b>.mcDiscount</b>               | string | Conditional | *Minimum Charge Discount (Maximum value of 99.99)   |
| DensityRateShipmentMultipleResponse<br><b>.userMinimumChargeFloor</b>   | string | Conditional | Minimum floor charge entered by user. (Maximum value of 99999.99)   |
| DensityRateShipmentMultipleResponse<br><b>.LTL_Surcharge</b>            | string | Conditional | *LTL surcharge percentage (Maximum value 99.99)   |
| DensityRateShipmentMultipleResponse<br><b>.TL_Surcharge</b>             | string | Conditional | *TL Surcharge percentage (Maximum value 99.99)  |
| DensityRateShipmentMultipleResponse<br><b>.surchargeApplication</b>     | string | Conditional | * G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges  |
| DensityRateShipmentMultipleResponse<br><b>.stopAlternationWeight</b>    | string | Conditional | * Maximum weight to stop the rating alternation. (Maximum value of 999999)  |
| DensityRateShipmentMultipleResponse<br><b>.detailType</b>               | string | Always      | **"DENSITY" = density and weight line item, "CUBE" = cube and weight line item, "LWH" = length, width, height and weight line item.   |
| DensityRateShipmentMultipleResponse<br><b>.surchargePercentUsed</b>     | string | Always      | Surcharge Percent Used (2 decimal places)   |

*(DensityRateShipmentMultiple Output Continued)*

|  |                         |             |  |
|--|-------------------------|-------------|--|
| DensityRateShipmentMultipleResponse<br><b>.surchargeAmount</b>           | string                  | Always      | Surcharge Amount (2 decimal places)  |
| DensityRateShipmentMultipleResponse<br><b>.errorCode</b>                 | string                  | Conditional | Returns code only if error exists.   |
| DensityRateShipmentMultipleResponse<br><b>.tblNo</b>                     | string                  | Always      | The table number from the applicable tariff for the origin/destination postal code pair.   |
| DensityRateShipmentMultipleResponse<br><b>.RBNO</b>                      | string                  | Always      | The rate basis number from the applicable tariff for the origin/destination postal code pair.  |
| DensityRateShipmentMultipleResponse<br><b>.suffix</b>                    | string                  | Always      | The suffix from the applicable tariff for the origin/destination postal code pair.   |
| DensityRateShipmentMultipleResponse<br><b>.actualWgt</b>                 | string                  | Always      | The real weight of the shipment, not including any applicable deficit weight (whole number)  |
| DensityRateShipmentMultipleResponse<br><b>.billedWgt</b>                 | string                  | Always      | The weight at which the shipment is rated; either Actual Weight or Actual Weight plus Deficit Weight (whole number)  |
| DensityRateShipmentMultipleResponse<br><b>.LHGrossCharge</b>             | string                  | Always      | Line Haul Gross Charge for the shipment (no discounts or accessorial) (2 decimal places)   |
| DensityRateShipmentMultipleResponse<br><b>.minimumCharge</b>             | string                  | Conditional | Minimum Charge Amount for the shipment (2 decimal places)  |
| DensityRateShipmentMultipleResponse<br><b>.absoluteMCFloor</b>           | string                  | Conditional | Absolute Minimum Charge Floor amount for the shipment (2 decimal places)   |
| DensityRateShipmentMultipleResponse<br><b>.deficitRate</b>               | string                  | Conditional | The rate for the deficit weight/density (2 decimal places)   |
| DensityRateShipmentMultipleResponse<br><b>.deficitCube</b>               | string                  | Conditional | The cube for the deficit weight (1 decimal place)  |
| DensityRateShipmentMultipleResponse<br><b>.deficitWeight</b>             | string                  | Conditional | The amount of additional weight necessary for the use of lower rates (whole number)  |
| DensityRateShipmentMultipleResponse<br><b>.deficitCharge</b>             | string                  | Conditional | The charge for deficit weight (2 decimal places)   |
| DensityRateShipmentMultipleResponse<br><b>.totalCharge</b>               | string                  | Always      | The NET charge for the shipment - Gross charge plus accessorial charges and applied discounts; 2 decimal places  |
| DensityRateShipmentMultipleResponse<br><b>.discountPctUsed</b>           | string                  | Always      | The percentage used in the rating processes based on the Billed Weight (2 decimal places)  |
| DensityRateShipmentMultipleResponse<br><b>.discountAmount</b>            | string                  | Always      | A dollar and cents amount of the calculated Discount (2 decimal places)  |
| DensityRateShipmentMultipleResponse<br><b>.shipmentID</b>                | string                  | Conditional | *Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)  |
| DensityRateShipmentMultipleResponse<br><b>.tariffName</b>                | string                  | Always      | *Tariff name (8 characters)  |
| DensityRateShipmentMultipleResponse<br><b>.effectiveDate</b>             | string                  | Always      | Tariff Effective Date (CCYYMMDD)   |
| DensityRateShipmentMultipleResponse<br><b>.rateApplication</b>           | string                  | Always      | R = Rated; M = Minimum charge applied; F = Floor applied; D = Dim charge applied   |
| DensityRateShipmentMultipleResponse<br><b>.orgDestToGateWayPointFlag</b> | string                  | Conditional | <i>Internal Use Only</i>   |
| DensityRateShipmentMultipleResponse<br><b>.dimFactor</b>                 | string                  | Conditional | * If DimFactorUnits = "L" or "K", then the required DimFactor attribute value must be set to a value of 1 thru 9999.99. If DimFactorUnits = "I" or "C", then the required DimFactor attribute value must be set to a value of 1 thru 99999.9 |
| DensityRateShipmentMultipleResponse<br><b>.dimFactorUnits</b>            | string                  | Conditional | * L=pounds/feet <sup>3</sup> ; K=kilograms/meters <sup>3</sup><br>I=inches <sup>3</sup> /pound; C=centimeters <sup>3</sup> /kilogram   |
| DensityRateShipmentMultipleResponse<br><b>.useDimMC</b>                  | string                  | Conditional | *(Y/N); "Y"=consider minimum charge during dimming application. "N"=do not use minimum charge during dimming application. Default value is "N".  |
| DensityRateShipmentMultipleResponse<br><b>.details</b>                   | complex<br>(repeatable) | Always      | Zero or more repetitions of Density Units, Pieces, Cube, Cube Units, Length, Width, Height, Dimension Units, Weight, Weight Units, Rate, Charge and Error.   |
| DensityRateShipmentMultipleResponse<br><b>.details.density</b>           | string                  | Conditional | *Required if Detail Type=DENSITY (Maximum value of 9999.99)  |

*(DensityRateShipmentMultiple Output Continued)*

|  |        |             |   |
|--|--------|-------------|---|
| DensityRateShipmentMultipleResponse<br>.details. <b>densityUnits</b>   | string | Conditional | *Required if Detail Type=DENSITY<br>L=pounds/feet <sup>3</sup> ; K=kilograms/meters <sup>3</sup>  |
| DensityRateShipmentMultipleResponse<br>.details. <b>pieces</b>         | string | Conditional | *Number of Pieces; Default is 1 (Maximum<br>value of 999999)  |
| DensityRateShipmentMultipleResponse<br>.details. <b>cube</b>           | string | Conditional | *Required if Detail Type=CUBE<br>(Maximum value 99999999999.9)  |
| DensityRateShipmentMultipleResponse<br>.details. <b>cubeUnits</b>      | string | Conditional | *Required if Detail Type=CUBE<br>F=feet <sup>3</sup> ; M=meters <sup>3</sup> ;<br>I=inches <sup>3</sup> ; C=centimeters <sup>3</sup>  |
| DensityRateShipmentMultipleResponse<br>.details. <b>length</b>         | string | Conditional | *Required if Detail type=LWH<br>(Maximum value of 9999.99)  |
| DensityRateShipmentMultipleResponse<br>.details. <b>width</b>          | string | Conditional | *Required if Detail type=LWH<br>(Maximum value of 9999.99)  |
| DensityRateShipmentMultipleResponse<br>.details. <b>height</b>         | string | Conditional | *Required if Detail type=LWH<br>(Maximum value of 9999.99)  |
| DensityRateShipmentMultipleResponse<br>.details. <b>dimensionUnits</b> | string | Conditional | Required if Detail Type=LWH<br>F=feet, M=meters, I=inches,<br>C=Centimeters   |
| DensityRateShipmentMultipleResponse<br>.details. <b>weight</b>         | string | Conditional | * (Minimum value 1, Maximum value<br>999999) NOTE: If Detail Type=LWH or<br>Detail Type=CUBE, this must be the total<br>line item weight of ALL Pieces. For 3<br>pieces, each weighing 100 pounds, the<br>weight would be 300 pounds. This is done<br>so the pallet weight can be used. |
| DensityRateShipmentMultipleResponse<br>.details. <b>weightUnits</b>    | string | Conditional | * L=pounds; K=kilograms   |
| DensityRateShipmentMultipleResponse<br>.details. <b>usedDensity</b>    | string | Always      | The density for the specified shipment line<br>(2 decimal places)   |
| DensityRateShipmentMultipleResponse<br>.details. <b>usedCube</b>       | string | Always      | The cube dimension for the specified<br>shipment line (1 decimal place)   |
| DensityRateShipmentMultipleResponse<br>.details. <b>usedWeight</b>     | string | Always      | The weight for the specified shipment line<br>(whole number)  |
| DensityRateShipmentMultipleResponse<br>.details. <b>rate</b>           | string | Always      | The rate for the specified shipment line (2<br>decimal places)  |
| DensityRateShipmentMultipleResponse<br>.details. <b>charge</b>         | string | Always      | The undiscounted charge for the shipment<br>line (2 decimal places)   |
| DensityRateShipmentMultipleResponse<br>.details. <b>error</b>          | string | Conditional | Returns code only if error exists.  |

## 2.12 DensityRateShipmentMultipleOpt

### 2.12.1 Description

This service is used to rate multiple shipments using binary input. The service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.

## 2.12.2 Input

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:web="http://webservices.smc.com">
  <soapenv:Header>
    <web:AuthenticationToken>
      <web:licenseKey> string </web:licenseKey>
      <web:password> string </web:password>
      <web:username> string </web:username>
    </web:AuthenticationToken>
  </soapenv:Header>
  <soapenv:Body>
    <web:DensityRateShipmentMultipleOpt>
      <web:DensityRateShipmentMultipleOptDelimitedRequest> string
    </web:DensityRateShipmentMultipleOptDelimitedRequest>
  </web:DensityRateShipmentMultipleOpt>
</soapenv:Body>
</soapenv:Envelope>
```

sample

### DensityRateShipmentMultipleOpt Request

| Argument   | Type                 | Required /Optional | Description   |
|--|----------------------|--------------------|---|
| <b>byte [ ]</b>  | Delimited byte array | Required           | Comma delimited   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.shipmentDateCCYYMMDD</b> | string               | Required           | Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.originCountry</b>        | string               | Required           | Origin Country: USA, MEX, CAN (3 alpha)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.originPostalCode</b>     | string               | Required           | Origin Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No spaces or dashes allowed.  |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.originCity</b>           | string               | Optional           | Origin City (Maximum of 60 ascii characters)  |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.originState</b>          | string               | Optional           | Origin State (maximum of 2 ascii characters; must comply with associated postal code)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.destinationCountry</b>   | string               | Required           | Destination Country: USA, MEX, CAN (3 alpha)  |

*(DensityRateShipmentMultipleOpt Request Continued)*

|   |        |          |   |
|---|--------|----------|---|
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.destinationPostalCode</b>   | string | Required | Destination Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No spaces or dashes.   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.destinationCity</b>         | string | Optional | Destination City (Maximum of 60 ascii characters)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.destinationState</b>        | string | Optional | Destination State (maximum of 2 ascii characters; must comply with associated postal code)  |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.useSingleShipment</b>       | string | Optional | (Y/N); "N" indicates the system should rate the bill as a multiple shipment. "Y" indicates the system should rate the bill as a single shipment. This field is only applicable when the shipment uses a tariff that uses single shipment charges. The default for this field is "N".  |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.rateAdjustmentFactor</b>    | string | Optional | A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 (Maximum value of 9.9999) |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.useDisc</b>                 | string | Optional | (Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.discountApplication</b>     | string | Optional | R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".  |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.userMCFloor</b>             | string | Optional | Minimum floor charge entered by user. (Maximum value of 99999.99)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_1</b>  | string | Optional | Weightbreak Discount 1 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_2</b>  | string | Optional | Weightbreak Discount 2 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_3</b>  | string | Optional | Weightbreak Discount 3 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_4</b>  | string | Optional | Weightbreak Discount 4 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_5</b>  | string | Optional | Weightbreak Discount 5 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_6</b>  | string | Optional | Weightbreak Discount 6 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_7</b>  | string | Optional | Weightbreak Discount 7 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_8</b>  | string | Optional | Weightbreak Discount 8 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_9</b>  | string | Optional | Weightbreak Discount 9 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_10</b> | string | Optional | Weightbreak Discount 10 (Maximum value of 99.99)  |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.weightBreak_Discount_11</b> | string | Optional | Weightbreak Discount 11 (Maximum value of 99.99)  |

(DensityRateShipmentMultipleOpt Request Continued)

|   |                      |          |  |
|---|----------------------|----------|--|
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.mcDiscount</b>                | string               | Optional | Minimum Charge Discount<br>(Maximum value of 99.99)  |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.userMCFloor</b>               | string               | Optional | Minimum floor charge entered by user. (Maximum value of 99999.99)  |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.LTL_Surcharge</b>             | string               | Optional | LTL surcharge percentage<br>(Maximum value 99.99)  |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.TL_Surcharge</b>              | string               | Optional | TL surcharge percentage<br>(Maximum value 99.99)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.surchargeApplication</b>      | string               | Optional | G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.orgDestToGateWayPointFlag</b> | string               | Optional | <i>Internal Use Only</i>   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.filler</b>                    | string               | Optional | Filler   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.shipmentID</b>                | string               | Optional | Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.tariffName</b>                | string               | Required | Tariff name (8 characters)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.stopAlternationWeight</b>     | string               | Optional | Maximum weight to stop the rating alternation. (Maximum value of 999999)   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.filler</b>                    | string               | Optional | Filler   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.dimFactor</b>                 | string               | Optional | If DimFactorUnits = "L" or "K", then the required DimFactor attribute value must be set to a value of 1 thru 9999.99. If DimFactorUnits = "I" or "C", then the required DimFactor attribute value must be set to a value of 1 thru 99999.9 |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.dimFactorUnits</b>            | string               | Required | L=pounds/feet <sup>3</sup><br>K=kilograms/meters <sup>3</sup><br>I=inches <sup>3</sup> /pound; C=centimeters <sup>3</sup> /kilogram  |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.useDimMC</b>                  | string               | Optional | (Y/N); "Y"=consider minimum charge during dimming application. "N"=do not use minimum charge during dimming application. Default value is "N".   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.detailType</b>                | string               | Required | "DENSITY" = density and weight line item, "CUBE" = cube and weight line item, "LWH" = length, width, height and weight line item.  |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.details</b>                   | complex (repeatable) | Required | Zero or more repetitions   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.details.density</b>           | string               | Optional | Required if Detail Type=DENSITY<br>(Maximum value of 9999.99)  |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.details.densityUnits</b>      | string               | Optional | Required if Detail Type=DENSITY<br>L=pounds/feet <sup>3</sup> ;<br>K=kilograms/meters <sup>3</sup>   |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.details.pieces</b>            | string               | Optional | Number of Pieces; Default is 1<br>(Maximum value of 999999)  |
| DensityRateShipmentMultipleOptDelimitedRequest<br><b>.details.cube</b>              | string               | Optional | Required if Detail Type=CUBE<br>(Maximum value 999999999999.9)   |



(DensityRateShipmentMultipleOpt Request Continued)

|  |        |          |  |
|--|--------|----------|--|
| DensityRateShipmentMultipleOptDelimitedRequest<br>.details.cubeUnits   | string | Optional | Required if Detail Type=CUBE<br>F=feet <sup>3</sup> ; M=meters <sup>3</sup> ;<br>I=inches <sup>3</sup> ; C=centimeters <sup>3</sup>  |
| DensityRateShipmentMultipleOptDelimitedRequest<br>.details.length      | string | Optional | Required if Detail Type=LWH<br>(Maximum value of 9999.99)  |
| DensityRateShipmentMultipleOptDelimitedRequest<br>.details.width       | string | Optional | Required if Detail Type=LWH<br>(Maximum value of 9999.99)  |
| DensityRateShipmentMultipleOptDelimitedRequest<br>.details.height      | string | Optional | Required if Detail Type=LWH<br>(Maximum value of 9999.99)  |
| DensityRateShipmentMultipleOptDelimitedRequest<br>.details.LWHUnits    | string | Optional | Required if Detail Type=LWH<br>F=feet, M=meters, I=inches,<br>C=Centimeters  |
| DensityRateShipmentMultipleOptDelimitedRequest<br>.details.weight      | string | Required | (Minimum value 1, Maximum value<br>999999) NOTE: If Detail Type=LWH or<br>Detail Type=CUBE, this must be the<br>total line item weight of ALL Pieces.<br>For 3 pieces, each weighing 100<br>pounds, the weight would be 300<br>pounds. This is done so the pallet<br>weight can be used. |
| DensityRateShipmentMultipleOptDelimitedRequest<br>.details.weightUnits | string | Required | L=pounds; K=kilograms  |

\* See Quick Tip on page 20 for weightbreak notes

## 2.12.3 Output

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soap:Body>
    <ns1:DensityRateShipmentMultipleOptResponse xmlns:ns1="http://webservices.smc.com">
      <ns1:DensityRateShipmentMultipleOptDelimitedResponse ns2:mimeType="application/octet-stream"
xmlns:ns2="http://www.w3.org/2004/11/xmlmime"> string </ns1:DensityRateShipmentMultipleOptDelimitedResponse>
    </ns1:DensityRateShipmentMultipleOptResponse>
  </soap:Body>
</soap:Envelope>
```

sample

## DensityRateShipmentMultipleOpt Response

| Return Value   | Type                    | Returned    | Description   |
|--|-------------------------|-------------|---|
| <b>byte [ ]</b>  | Delimited<br>byte array | Always      | Comma delimited   |
| DensityRateShipmentMultipleOptDelimitedResponse<br>.errorCode            | string                  | Conditional | Returns code only if error exists.  |
| DensityRateShipmentMultipleOptDelimitedResponse<br>.shipmentDateCCYYMMDD | string                  | Always      | Shipment Date (CCYYMMDD). This<br>field is used to select the desired tariff<br>module for rating. If the actual<br>shipment date is passed in this field,<br>RateWareXL will select the appropriate<br>tariff module in effect based on the<br>shipment date and Tariff name<br>passed. If the user wants to specify a<br>specific tariff module for rating<br>(regardless the of actual shipment<br>date), passing the effective date of the<br>tariff module will rate the shipment<br>based on that effective date. |

*(DensityRateShipmentMultipleOpt Response Continued)*

|   |        |             |   |
|---|--------|-------------|---|
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.originCountry</b>          | string | Always      | Origin Country: USA, MEX, CAN (3 alpha)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.originPostalCode</b>       | string | Always      | Origin Postal Code  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.originCity</b>             | string | Conditional | Origin City (Maximum of 60 ascii characters)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.originState</b>            | string | Conditional | Origin State (maximum of 2 ascii characters; must comply with associated postal code)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.destinationCountry</b>     | string | Always      | Destination Country: USA, MEX, CAN (3 alpha)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.destinationPostalCode</b>  | string | Always      | Destination Postal Code   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.destinationCity</b>        | string | Conditional | Destination City (Maximum of 60 ascii characters)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.destinationState</b>       | string | Conditional | Destination State (maximum of 2 ascii characters; must comply with associated postal code)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.useSingleShipment</b>      | string | Conditional | (Y/N); "N" indicates the system should rate the bill as a multiple shipment. "Y" indicates the system should rate the bill as a single shipment. This field is only applicable when the shipment uses a tariff that uses single shipment charges. The default for this field is "N".  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.rateAdjustmentFactor</b>   | string | Conditional | A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 (Maximum value of 9.9999) |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.useDisc</b>                | string | Conditional | (Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.discountApplication</b>    | string | Conditional | R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_1</b> | string | Conditional | Weightbreak Discount 1 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_2</b> | string | Conditional | Weightbreak Discount 2 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_3</b> | string | Conditional | Weightbreak Discount 3 (Maximum value of 99.99)   |

*(DensityRateShipmentMultipleOpt Response Continued)*

|  |        |             |  |
|--|--------|-------------|--|
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_4</b>    | string | Conditional | Weightbreak Discount 4 (Maximum value of 99.99)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_5</b>    | string | Conditional | Weightbreak Discount 5 (Maximum value of 99.99)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_6</b>    | string | Conditional | Weightbreak Discount 6 (Maximum value of 99.99)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_7</b>    | string | Conditional | Weightbreak Discount 7 (Maximum value of 99.99)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_8</b>    | string | Conditional | Weightbreak Discount 8 (Maximum value of 99.99)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_9</b>    | string | Conditional | Weightbreak Discount 9 (Maximum value of 99.99)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_10</b>   | string | Conditional | Weightbreak Discount 10 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.weightBreak_Discount_11</b>   | string | Conditional | Weightbreak Discount 11 (Maximum value of 99.99)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.mcDiscount</b>                | string | Conditional | Minimum Charge Discount (2 decimal places)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.userMCFloor</b>               | string | Conditional | Minimum floor charge entered by user. (Maximum value of 99999.99)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.LTL_Surcharge</b>             | string | Conditional | LTL surcharge percentage (Maximum value 99.99)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.TL_Surcharge</b>              | string | Conditional | TL surcharge percentage (Maximum value 99.99)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.surchargeApplication</b>      | string | Conditional | G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.surchargePercentUsed</b>      | string | Always      | Surcharge Percent Used (2 decimal places)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.surchargeAmount</b>           | string | Always      | Surcharge Amount (2 decimal places)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.orgDestToGateWayPointFlag</b> | string | Conditional | <i>Internal Use Only</i>   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.tableNumber</b>               | string | Always      | The table number from the applicable tariff for the origin/destination postal code pair.                     |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.RBNO</b>                      | string | Always      | The rate basis number from the applicable tariff for the origin/destination postal code pair.                |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.suffix</b>                    | string | Always      | The rbno suffix from the applicable tariff for the origin/destination postal code pair.                      |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.actualWgt</b>                 | string | Always      | The real weight of the shipment, not including any applicable deficit weight (whole number)                  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.billedWgt</b>                 | string | Always      | The weight at which the shipment is rated; Actual Weight or Actual Weight plus Deficit Weight (whole number) |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.LHGrossCharge</b>             | string | Always      | Line Haul Gross Charge Amount for the shipment (no discounts or accessorial) (2 decimal places)              |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.minimumCharge</b>             | string | Always      | Minimum Charge Amount for the shipment (2 decimal places)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.absoluteMCFloor</b>           | string | Conditional | Absolute Minimum Charge amount for the shipment (2 decimal places)   |

*(DensityRateShipmentMultipleOpt Response Continued)*

|  |                      |             |  |
|--|----------------------|-------------|--|
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.deficitCube</b>             | string               | Conditional | The cube for the deficit weight (1 decimal place)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.deficitRate</b>             | string               | Conditional | The rate for the deficit weight/density (2 decimal places)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.deficitWeight</b>           | string               | Always      | The amount of additional weight necessary for the use of lower rates (whole number)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.deficitCharge</b>           | string               | Conditional | The charge for deficit weight, if any (2 decimal places)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.totalCharge</b>             | string               | Always      | The NET charge for the shipment - Gross charge plus accessorial charges and applied discounts (2 decimal places)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.discountPctUsed</b>         | string               | Always      | The percentage used in the rating processes based on the Billed Weight. (2 decimal places)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.discountAmountUsed</b>      | string               | Always      | A dollar and cents amount of the calculated Discount.  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.filler</b>                  | string               | Optional    | Filler   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.shipmentID</b>              | string               | Conditional | *Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.tariffName</b>              | string               | Always      | *Tariff name (8 characters)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.effectiveDate</b>           | string               | Always      | Tariff Effective Date (CCYYMMDD)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.stopAlternationWeight</b>   | string               | Conditional | Maximum weight to stop the rating alternation. (Maximum value of 999999)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.rateApplication</b>         | string               | Always      | R = Rated; M = Minimum charge applied;<br>F = Floor applied; D = Dim charge applied  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.dimFactor</b>               | string               | Conditional | If DimFactorUnits = "L" or "K", then the required DimFactor attribute value must be set to a value of 1 thru 9999.99. If DimFactorUnits = "I" or "C", then the required DimFactor attribute value must be set to a value of 1 thru 99999.9 |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.dimFactorUnits</b>          | string               | Always      | L=pounds/feet <sup>3</sup> ; K=kilograms/meters <sup>3</sup><br>I=inches <sup>3</sup> /pound; C=centimeters <sup>3</sup> /kilogram   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.useDimMC</b>                | string               | Conditional | (Y/N); "Y"=consider minimum charge during dimming application. "N"=do not use minimum charge during dimming application. Default value is "N".   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.detailType</b>              | string               | Always      | "DENSITY" = density and weight line item, "CUBE" = cube and weight line item, "LWH" = length, width, height and weight line item.  |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.details</b>                 | complex (repeatable) | Always      | Zero or more repetitions   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.detailError_1</b>           | string               | Conditional | Returns code only if error exists.   |
| DensityRateShipmentMultipleOptDelimitedResponse<br><b>.details.detailDensity_1</b> | string               | Conditional | Required if Detail Type=DENSITY (Maximum value of 9999.99)   |

*(DensityRateShipmentMultipleOpt Response Continued)*

|  |        |             |   |
|--|--------|-------------|---|
| DensityRateShipmentMultipleOptDelimitedResponse<br>.details. <b>detailDensityUnits_1</b> | string | Conditional | Required if Detail Type=DENSITY<br>L=pounds/feet <sup>3</sup> ; K=kilograms/meters <sup>3</sup>   |
| DensityRateShipmentMultipleOptDelimitedResponse<br>.details. <b>detailPieces_1</b>       | string | Conditional | Number of Pieces; Default is 1<br>(Maximum value of 999999)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br>.details. <b>detailCube_1</b>         | string | Conditional | Required if Detail Type=CUBE<br>(Maximum value 99999999999.9)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br>.details. <b>detailCubeUnits_1</b>    | string | Conditional | Required if Detail Type=CUBE<br>F=feet <sup>3</sup> ; M=meters <sup>3</sup> ;<br>I=inches <sup>3</sup> ; C=centimeters <sup>3</sup>   |
| DensityRateShipmentMultipleOptDelimitedResponse<br>.details. <b>detailLength_1</b>       | string | Conditional | Required if Detail Type=LWH<br>(Maximum value of 9999.99)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br>.details. <b>detailWidth_1</b>        | string | Conditional | Required if Detail Type=LWH<br>(Maximum value of 9999.99)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br>.details. <b>detailHeight_1</b>       | string | Conditional | Required if Detail Type=LWH<br>(Maximum value of 9999.99)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br>.details. <b>detailLWHUnits_1</b>     | string | Conditional | Required if Detail Type=LWH<br>F=feet, M=meters, I=inches,<br>C=Centimeters   |
| DensityRateShipmentMultipleOptDelimitedResponse<br>.details. <b>detailWeight_1</b>       | string | Always      | (Minimum value 1, Maximum value<br>999999) NOTE: If Detail Type=LWH or<br>Detail Type=CUBE, this must be the<br>total line item weight of ALL Pieces. For<br>3 pieces, each weighing 100 pounds,<br>the weight would be 300 pounds. This is<br>done so the pallet weight can be used. |
| DensityRateShipmentMultipleOptDelimitedResponse<br>.details. <b>detailWeightUnits_1</b>  | string | Always      | L=pounds; K=kilograms   |
| DensityRateShipmentMultipleOptDelimitedResponse<br>.details. <b>detailUsedDensity_1</b>  | string | Always      | The density for the specified shipment<br>line (2 decimal places)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br>.details. <b>detailUsedCube_1</b>     | string | Always      | The cube dimension for the specified<br>shipment line (1 decimal place)   |
| DensityRateShipmentMultipleOptDelimitedResponse<br>.details. <b>detailUsedWeight_1</b>   | string | Always      | The weight for the specified shipment<br>line (whole number)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br>.details. <b>detailRate_1</b>         | string | Always      | The rate for the specified shipment line<br>(2 decimal places)  |
| DensityRateShipmentMultipleOptDelimitedResponse<br>.details. <b>detailCharge_1</b>       | string | Always      | The charge for the shipment line (2<br>decimal places)  |

## 2.13 LinearRateShipmentSimple

### 2.13.1 Description

This service is used to rate a single shipment using linear dimensions. It does not support the application of discounts, minimum charge floor, and other pricing factors. Shipments requiring the application of these factors should utilize the LinearRateShipment web service.

### 2.13.2 Input

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:web="http://webservices.smc.com" xmlns:web1="http://web.linear.smc.com">
  <soapenv:Header>
    <web:AuthenticationToken>
      <web:licenseKey> string </web:licenseKey>
      <web:password> string </web:password>
      <web:username> string </web:username>
      <!--You may enter ANY elements at this point-->
    </web:AuthenticationToken>
  </soapenv:Header>
  <soapenv:Body>
    <web:LinearRateShipmentSimple>
      <web:LinearRateShipmentSimpleRequest>
        <web1:destinationCountry> string </web1:destinationCountry>
        <web1:destinationPostalCode> string </web1:destinationPostalCode>
        <web1:details>
          <!--Zero or more repetitions:-->
          <web1:LinearRequestDetail>
            <web1:linearFeet> string </web1:linearFeet>
            <!--You may enter ANY elements at this point-->
          </web1:LinearRequestDetail>
        </web1:details>
        <web1:originCountry> string </web1:originCountry>
        <web1:originPostalCode> string </web1:originPostalCode>
        <web1:shipmentDateCCYYMMDD> string </web1:shipmentDateCCYYMMDD>
        <web1:shipmentID> string </web1:shipmentID>
        <web1:tariffName> string </web1:tariffName>
        <!--You may enter ANY elements at this point-->
      </web:LinearRateShipmentSimpleRequest>
    </web:LinearRateShipmentSimple>
  </soapenv:Body>
</soapenv:Envelope>
```

sample

## LinearRateShipmentSimpleRequest

| Argument   | Type                    | Required/<br>Optional | Description   |
|--|-------------------------|-----------------------|---|
| LinearRateShipmentSimpleRequest<br><b>.destinationCountry</b>    | string                  | Required              | Destination Country: USA, MEX, CAN (3 alpha)  |
| LinearRateShipmentSimpleRequest<br><b>.destinationPostalCode</b> | string                  | Required              | Destination Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No spaces or dashes.   |
| LinearRateShipmentSimpleRequest<br><b>.details</b>               | complex<br>(repeatable) | Required              | Zero or more repetitions (Max of 100 detail lines)  |
| LinearRateShipmentSimpleRequest<br><b>.details.linearFeet</b>    | string                  | Required              | The linear feet of the specified shipment line (Max value 99.9)   |
| LinearRateShipmentSimpleRequest<br><b>.originPostalCode</b>      | string                  | Required              | Origin Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No spaces or dashes allowed.  |
| LinearRateShipmentSimpleRequest<br><b>.originCountry</b>         | string                  | Required              | Origin Country: USA, MEX, CAN (3 alpha)   |
| LinearRateShipmentSimpleRequest<br><b>.shipmentDateCCYYMMDD</b>  | string                  | Required              | Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| LinearRateShipmentSimpleRequest<br><b>.shipmentID</b>            | string                  | Optional              | Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)  |
| LinearRateShipmentSimpleRequest<br><b>.tariffName</b>            | string                  | Required              | Tariff name (8 characters)  |

## 2.13.3 Output

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soap:Body>
    <ns1:LinearRateShipmentSimpleResponse xmlns:ns1="http://webservices.smc.com">
      <ns1:LinearRateShipmentSimpleResponse>
        <destinationCountry xmlns="http://web.linear.smc.com"> string </destinationCountry>
        <destinationPostalCode xmlns="http://web.linear.smc.com"> string </destinationPostalCode>
        <details xmlns="http://web.linear.smc.com">
          <LinearResponseDetail>
            <charge> string </charge>
            <error> string </error>
            <linearFeet> string </linearFeet>
          </LinearResponseDetail>
        </details>
        <effectiveDate xmlns="http://web.linear.smc.com"> string </effectiveDate>
        <errorCode xmlns="http://web.linear.smc.com"> string </errorCode>
        <originCountry xmlns="http://web.linear.smc.com"> string </originCountry>
        <originPostalCode xmlns="http://web.linear.smc.com"> string </originPostalCode>
        <shipmentDateCCYYMMDD xmlns="http://web.linear.smc.com"> string </shipmentDateCCYYMMDD>
        <shipmentID xmlns="http://web.linear.smc.com"> string </shipmentID>
        <tariffName xmlns="http://web.linear.smc.com"> string </tariffName>
        <totalCharge xmlns="http://web.linear.smc.com"> string </totalCharge>
      </ns1:LinearRateShipmentSimpleResponse>
    </ns1:LinearRateShipmentSimpleResponse>
  </soap:Body>
</soap:Envelope>

```

sample

## LinearRateShipmentSimpleResponse

*\* indicates passed in the request*

| Return Value  | Type                 | Returned    | Description  |
|---|----------------------|-------------|--|
| LinearRateShipmentSimpleResponse<br><b>.destinationCountry</b>    | string               | Always      | *Destination Country: USA, MEX, CAN (3 alpha)  |
| LinearRateShipmentSimpleResponse<br><b>.destinationPostalCode</b> | string               | Always      | *Destination Postal Code   |
| LinearRateShipmentSimpleResponse<br><b>.details</b>               | complex (repeatable) | Always      | Zero or more repetitions (Max of 100 detail lines)   |
| LinearRateShipmentSimpleResponse<br><b>.details.charge</b>        | string               | Always      | The undiscounted charge for the shipment line (2 decimal places)   |
| LinearRateShipmentSimpleResponse<br><b>.details.error</b>         | string               | Conditional | Returns code only if error exists.   |
| LinearRateShipmentSimpleResponse<br><b>.details.linearFeet</b>    | string               | Always      | *The linear Feet of the specified shipment line (Max value 99.9)   |
| LinearRateShipmentSimpleResponse<br><b>.effectiveDate</b>         | string               | Always      | Tariff Effective Date (CCYYMMDD)   |
| LinearRateShipmentSimpleResponse<br><b>.errorCode</b>             | string               | Conditional | Returns code only if error exists.   |
| LinearRateShipmentSimpleResponse<br><b>.originCountry</b>         | string               | Always      | *Origin Country: USA, MEX, CAN (3 alpha)   |
| LinearRateShipmentSimpleResponse<br><b>.originPostalCode</b>      | string               | Always      | *Origin Postal Code  |
| LinearRateShipmentSimpleResponse<br><b>.shipmentDateCCYYMMDD</b>  | string               | Always      | *Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| LinearRateShipmentSimpleResponse<br><b>.shipmentID</b>            | string               | Conditional | *Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)  |
| LinearRateShipmentSimpleResponse<br><b>.tariffName</b>            | string               | Always      | *Tariff name (8 characters)  |
| LinearRateShipmentSimpleResponse<br><b>.totalCharge</b>           | string               | Always      | The NET charge for the shipment (2 decimal places)   |

## 2.14 LinearRateShipment

### 2.14.1 Description

This service is used to rate a single shipment using linear dimensions. This service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.



## 2.14.2 Input

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://webservices.smc.com"
xmlns:web1="http://web.linear.smc.com">
  <soapenv:Header>
    <web:AuthenticationToken>
      <web:licenseKey> string </web:licenseKey>
      <web:password> string </web:password>
      <web:username> string </web:username>
      <!--You may enter ANY elements at this point-->
    </web:AuthenticationToken>
  </soapenv:Header>
  <soapenv:Body>
    <web:LinearRateShipment>
      <web:LinearRateShipmentRequest>
        <web1:destinationCity> string </web1:destinationCity>
        <web1:destinationState> string </web1:destinationState>
        <web1:discountApplication> string </web1:discountApplication>
        <web1:discountPercentage> string </web1:discountPercentage>
        <web1:maxLinearFeetAllowed> string </web1:maxLinearFeetAllowed>
        <web1:maxTrailerLengthOverride> string </web1:maxTrailerLengthOverride>
        <web1:mcDiscount> string </web1:mcDiscount>
        <web1:orgDestToGateWayPointFlag> string </web1:orgDestToGateWayPointFlag>
        <web1:originCity> string </web1:originCity>
        <web1:originState> string </web1:originState>
        <web1:rateAdjustmentFactor> string </web1:rateAdjustmentFactor>
        <web1:stopAlternationWeight> string </web1:stopAlternationWeight>
        <web1:surcharge> string </web1:surcharge>
        <web1:surchargeApplication> string </web1:surchargeApplication>
        <web1:useDiscounts> string </web1:useDiscounts>
        <web1:userMinimumChargeFloor> string </web1:userMinimumChargeFloor>
        <web1:destinationCountry> string </web1:destinationCountry>
        <web1:destinationPostalCode> string </web1:destinationPostalCode>
        <web1:details>
          <!--Zero or more repetitions:-->
          <web1:LinearRequestDetail>
            <web1:linearFeet> string </web1:linearFeet>
            <!--You may enter ANY elements at this point-->
          </web1:LinearRequestDetail>
        </web1:details>
        <web1:originCountry> string </web1:originCountry>
        <web1:originPostalCode> string </web1:originPostalCode>
        <web1:shipmentDateCCYYMMDD> string </web1:shipmentDateCCYYMMDD>
        <web1:shipmentID> string </web1:shipmentID>
        <web1:tariffName> string </web1:tariffName>
        <!--You may enter ANY elements at this point-->
      </web:LinearRateShipmentRequest>
    </web:LinearRateShipment>
  </soapenv:Body>
</soapenv:Envelope>
```

sample

## LinearRateShipmentRequest

| Argument   | Type                 | Required /Optional | Description   |
|--|----------------------|--------------------|---|
| LinearRateShipmentRequest<br><b>.destinationCity</b>           | string               | Optional           | Destination City (Maximum of 60 ascii characters)   |
| LinearRateShipmentRequest<br><b>.destinationState</b>          | string               | Optional           | Destination State (maximum of 2 ascii characters; must comply with associated postal code)  |
| LinearRateShipmentRequest<br><b>.discountApplication</b>       | string               | Optional           | R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".  |
| LinearRateShipmentRequest<br><b>.discountPercentage</b>        | string               | Optional           | Discount (Max value of 99.99)   |
| LinearRateShipmentRequest<br><b>.maxLinearFeetAllowed</b>      | string               | Required           | Maximum Linear Feet Allowed (2 digits, no decimal, max value of 99)   |
| LinearRateShipmentRequest<br><b>.maxTrailerLengthOverride</b>  | string               | Required           | Maximum Trailer Length Override (2 digits, no decimal, max value of 99)   |
| LinearRateShipmentRequest<br><b>.mcDiscount</b>                | string               | Optional           | Minimum Charge Discount (Max value of 99.99)  |
| LinearRateShipmentRequest<br><b>.orgDestToGateWayPointFlag</b> | string               | Optional           | <i>Internal Use Only</i>  |
| LinearRateShipmentRequest<br><b>.originCity</b>                | string               | Optional           | Origin City (Maximum of 60 ascii characters)  |
| LinearRateShipmentRequest<br><b>.originState</b>               | string               | Optional           | Origin State (maximum of 2 ascii characters; must comply with associated postal code)   |
| LinearRateShipmentRequest<br><b>.rateAdjustmentFactor</b>      | string               | Optional           | A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 (Maximum value of 9.9999) |
| LinearRateShipmentRequest<br><b>.stopAlternationWeight</b>     | string               | Optional           | Max weight to stop the rating alternation. (Max value of 999999)  |
| LinearRateShipmentRequest<br><b>.Surcharge</b>                 | string               | Optional           | Surcharge percentage (Max value 99.99)  |
| LinearRateShipmentRequest<br><b>.surchargeApplication</b>      | string               | Optional           | G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges  |
| LinearRateShipmentRequest<br><b>.useDiscounts</b>              | string               | Optional           | (Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| LinearRateShipmentRequest<br><b>.userMinimumChargeFloor</b>    | string               | Optional           | Minimum floor charge entered by user. (Max value of 99999.99)   |
| LinearRateShipmentRequest<br><b>.destinationCountry</b>        | string               | Required           | Destination Country: USA, MEX, CAN (3 alpha)  |
| LinearRateShipmentRequest<br><b>.destinationPostalCode</b>     | string               | Required           | Destination Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No spaces or dashes.   |
| LinearRateShipmentRequest<br><b>.details</b>                   | complex (repeatable) | Required           | Zero or more repetitions (Max of 100 detail lines)  |
| LinearRateShipmentRequest<br><b>.details.linearFeet</b>        | string               | Required           | The linear feet for the specified shipment line. (Max value 99.9)   |
| LinearRateShipmentRequest<br><b>.originCountry</b>             | string               | Required           | Origin Country: USA, MEX, CAN (3 alpha)   |
| LinearRateShipmentRequest<br><b>.originPostalCode</b>          | string               | Required           | Origin Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No spaces or dashes allowed.  |

*(LinearRateShipmentRequest Continued)*

|   |        |          |   |
|---|--------|----------|---|
| LinearRateShipmentRequest<br><b>.shipmentDateCCYYMMDD</b> | string | Required | Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| LinearRateShipmentRequest<br><b>.shipmentID</b>           | string | Optional | Shipment ID; Use any combination of letters and numbers to identify the shipment. (Max of 20 ascii characters)  |
| LinearRateShipmentRequest<br><b>.tariffName</b>           | string | Required | Tariff name (8 characters)  |

### 2.14.3 Output

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soap:Body>
    <ns1:LinearRateShipmentResponse xmlns:ns1="http://webservices.smc.com">
      <ns1:LinearRateShipmentResponse>
        <LHGrossCharge xmlns="http://web.linear.smc.com"> string </LHGrossCharge>
        <RBNO xmlns="http://web.linear.smc.com"> string </RBNO>
        <destinationCity xmlns="http://web.linear.smc.com"> string </destinationCity>
        <destinationState xmlns="http://web.linear.smc.com"> string </destinationState>
        <discountAmount xmlns="http://web.linear.smc.com"> string </discountAmount>
        <discountApplication xmlns="http://web.linear.smc.com"> string </discountApplication>
        <discountPctUsed xmlns="http://web.linear.smc.com"> string </discountPctUsed>
        <discountPercentage xmlns="http://web.linear.smc.com"> string </discountPercentage>
        <maxLinearFeetAllowed xmlns="http://web.linear.smc.com"> string </maxLinearFeetAllowed>
        <maxTrailerLengthOverride xmlns="http://web.linear.smc.com"> string </maxTrailerLengthOverride>
        <mcDiscount xmlns="http://web.linear.smc.com"> string </mcDiscount>
        <minimumCharge xmlns="http://web.linear.smc.com"> string </minimumCharge>
        <orgDestToGateWayPointFlag xmlns="http://web.linear.smc.com"> string </orgDestToGateWayPointFlag>
        <originCity xmlns="http://web.linear.smc.com"> string </originCity>
        <originState xmlns="http://web.linear.smc.com"> string </originState>
        <rateAdjustmentFactor xmlns="http://web.linear.smc.com"> string </rateAdjustmentFactor>
        <rateApplication xmlns="http://web.linear.smc.com"> string </rateApplication>
        <stopAlternationWeight xmlns="http://web.linear.smc.com"> string </stopAlternationWeight>
        <suffix xmlns="http://web.linear.smc.com"> string </suffix>
        <surcharge xmlns="http://web.linear.smc.com"> string </surcharge>
        <surchargeAmount xmlns="http://web.linear.smc.com"> string </surchargeAmount>
        <surchargeApplication xmlns="http://web.linear.smc.com"> string </surchargeApplication>
        <tblno xmlns="http://web.linear.smc.com"> string </tblno>
        <useDiscounts xmlns="http://web.linear.smc.com"> string </useDiscounts>
        <userMinimumChargeFloor xmlns="http://web.linear.smc.com"> string </userMinimumChargeFloor>
        <destinationCountry xmlns="http://web.linear.smc.com"> string </destinationCountry>
        <destinationPostalCode xmlns="http://web.linear.smc.com"> string </destinationPostalCode>
        <details xmlns="http://web.linear.smc.com">
          <LinearResponseDetail>
            <charge> string </charge>
            <error> string </error>
            <linearFeet> string </linearFeet>
          </LinearResponseDetail>
        </details>
        <effectiveDate xmlns="http://web.linear.smc.com"> string </effectiveDate>
        <errorCode xmlns="http://web.linear.smc.com"> string </errorCode>
        <originCountry xmlns="http://web.linear.smc.com"> string </originCountry>
        <originPostalCode xmlns="http://web.linear.smc.com"> string </originPostalCode>
        <shipmentDateCCYYMMDD xmlns="http://web.linear.smc.com"> string </shipmentDateCCYYMMDD>
        <shipmentID xmlns="http://web.linear.smc.com"> string </shipmentID>
        <tariffName xmlns="http://web.linear.smc.com"> string </tariffName>
        <totalCharge xmlns="http://web.linear.smc.com"> string </totalCharge>
      </ns1:LinearRateShipmentResponse>
    </ns1:LinearRateShipmentResponse>
  </soap:Body>
</soap:Envelope>
```

sample

# LinearRateShipmentResponse

*\* indicates passed in the request*

| Return Value  | Type   | Returned    | Description  |
|---|--------|-------------|--|
| LinearRateShipmentResponse<br><b>.LHGrossCharge</b>             | string | Always      | Line Haul Gross Charge Amount for the shipment (no discounts or accessorials) (2 decimal places)   |
| LinearRateShipmentResponse<br><b>.RBNO</b>                      | string | Always      | The rate basis number from the applicable tariff for the origin/destination postal code pair.  |
| LinearRateShipmentResponse<br><b>.destinationCity</b>           | string | Conditional | *Destination City (Maximum of 60 ascii characters)   |
| LinearRateShipmentResponse<br><b>.destinationState</b>          | string | Always      | *Destination State (maximum of 2 ascii characters; must comply with associated postal code).   |
| LinearRateShipmentResponse<br><b>.discountAmount</b>            | string | Always      | A dollar and cents amount of the calculated Discount (2 decimal places)  |
| LinearRateShipmentResponse<br><b>.discountApplication</b>       | string | Conditional | * R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".   |
| LinearRateShipmentResponse<br><b>.surchargePercentUsed</b>      | string | Always      | Surcharge Percent Used (2 decimal places)  |
| LinearRateShipmentResponse<br><b>.discountPercentage</b>        | string | Conditional | Discount (Maximum value of 99.99)  |
| LinearRateShipmentResponse<br><b>.maxLinearFeetAllowed</b>      | string | Always      | Maximum Linear Feet Allowed (2 digits, no decimal, max value of 99)  |
| LinearRateShipmentResponse<br><b>.maxTrailerLengthOverride</b>  | string | Always      | Maximum Trailer Length Override (2 digits, no decimal, max value of 99)  |
| LinearRateShipmentResponse<br><b>.mcDiscount</b>                | string | Conditional | *Minimum Charge Discount (2 decimal places)  |
| LinearRateShipmentResponse<br><b>.minimumCharge</b>             | string | Always      | Minimum Charge Amount for the shipment (2 decimal places)  |
| LinearRateShipmentResponse<br><b>.orgDestToGateWayPointFlag</b> | string | Conditional | <i>Internal Use Only</i>   |
| LinearRateShipmentResponse<br><b>.originCity</b>                | string | Conditional | *Origin City (Maximum of 60 ascii characters)  |
| LinearRateShipmentResponse<br><b>.originState</b>               | string | Always      | *Origin State (maximum of 2 ascii characters; must comply with associated postal code). State codes are returned even if they are not passed in the request.   |
| LinearRateShipmentResponse<br><b>.rateAdjustmentFactor</b>      | string | Conditional | *A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 |
| LinearRateShipmentResponse<br><b>.rateApplication</b>           | string | Always      | R = rated; M = minimum charge applied; F = Floor applied   |
| LinearRateShipmentResponse<br><b>.stopAlternationWeight</b>     | string | Conditional | * Maximum weight to stop the rating alternation. (Maximum value of 999999)   |
| LinearRateShipmentResponse<br><b>.suffix</b>                    | string | Always      | The rbno suffix from the applicable tariff for the origin/destination postal code pair.  |
| LinearRateShipmentResponse<br><b>.Surcharge</b>                 | string | Conditional | *Surcharge percentage (Maximum value 99.99)  |
| LinearRateShipmentResponse<br><b>.surchargeAmount</b>           | string | Always      | Surcharge Amount (2 decimal places)  |
| LinearRateShipmentResponse<br><b>.surchargeApplication</b>      | string | Conditional | * G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges   |
| LinearRateShipmentResponse<br><b>.tblno</b>                     | string | Always      | The table number from the applicable tariff for the origin/destination postal code pair.   |
| LinearRateShipmentResponse<br><b>.useDiscounts</b>              | string | Conditional | *(Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| LinearRateShipmentResponse<br><b>.userMinimumChargeFloor</b>    | string | Conditional | Minimum floor charge entered by user. (Maximum value of 99999.99)  |
| LinearRateShipmentResponse<br><b>.destinationCountry</b>        | string | Always      | *Destination Country: USA, MEX, CAN (3 alpha)  |

*(LinearRateShipmentResponse Continued)*

|   |                         |             |  |
|---|-------------------------|-------------|--|
| LinearRateShipmentResponse<br><b>.destinationPostalCode</b> | string                  | Always      | *Destination Postal Code   |
| LinearRateShipmentResponse<br><b>.details</b>               | complex<br>(repeatable) | Always      | Zero or more repetitions (Max of 100 detail lines)   |
| LinearRateShipmentResponse<br>.details. <b>charge</b>       | string                  | Always      | The charge for the shipment line (2 decimal places)  |
| LinearRateShipmentResponse<br>.details. <b>error</b>        | string                  | Conditional | Returns code only if error exists.   |
| LinearRateShipmentResponse<br>.details. <b>linearFeet</b>   | string                  | Always      | *Linear Feet (Max 99.9)  |
| LinearRateShipmentResponse<br><b>.effectiveDate</b>         | string                  | Always      | Tariff Effective Date (CCYYMMDD)   |
| LinearRateShipmentResponse<br><b>.errorCode</b>             | string                  | Conditional | Returns code only if error exists.   |
| LinearRateShipmentResponse<br><b>.originCountry</b>         | string                  | Always      | *Origin Country: USA, MEX, CAN (3 alpha)   |
| LinearRateShipmentResponse<br><b>.originPostalCode</b>      | string                  | Always      | *Origin Postal code  |
| LinearRateShipmentResponse<br><b>.shipmentDateCCYYMMDD</b>  | string                  | Always      | *Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| LinearRateShipmentResponse<br><b>.shipmentID</b>            | string                  | Conditional | *Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)  |
| LinearRateShipmentResponse<br><b>.tariffName</b>            | string                  | Always      | *Tariff name (8 characters)  |
| LinearRateShipmentResponse<br><b>.totalCharge</b>           | string                  | Always      | The NET charge for the shipment - Gross charge plus accessorial charges and applied discounts (2 decimal places)   |

## 2.15 LinearRateShipmentMultiple

### 2.15.1 Description

This service is used to rate multiple shipments in a single request using linear dimensions. The service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.

## 2.15.2 Input

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:web="http://webservices.smc.com" xmlns:web1="http://web.linear.smc.com">
  <soapenv:Header>
    <web:AuthenticationToken>
      <web:licenseKey> string </web:licenseKey>
      <web:password> string </web:password>
      <web:username> string </web:username>
      <!--You may enter ANY elements at this point-->
    </web:AuthenticationToken>
  </soapenv:Header>
  <soapenv:Body>
    <web:LinearRateShipmentMultiple>
      <web:LinearRateShipmentMultipleRequest>
        <!--Zero or more repetitions:-->
        <web1:LinearRateShipmentRequest>
          <web1:destinationCity> string </web1:destinationCity>
          <web1:destinationState> string </web1:destinationState>
          <web1:discountApplication> string </web1:discountApplication>
          <web1:discountPercentage> string </web1:discountPercentage>
          <web1:maxLinearFeetAllowed> string </web1:maxLinearFeetAllowed>
          <web1:maxTrailerLengthOverride> string </web1:maxTrailerLengthOverride>
          <web1:mcDiscount> string </web1:mcDiscount>
          <web1:orgDestToGateWayPointFlag> string </web1:orgDestToGateWayPointFlag>
          <web1:originCity> string </web1:originCity>
          <web1:originState> string </web1:originState>
          <web1:rateAdjustmentFactor> string </web1:rateAdjustmentFactor>
          <web1:stopAlternationWeight> string </web1:stopAlternationWeight>
          <web1:surcharge> string </web1:surcharge>
          <web1:surchargeApplication> string </web1:surchargeApplication>
          <web1:useDiscounts> string </web1:useDiscounts>
          <web1:userMinimumChargeFloor> string </web1:userMinimumChargeFloor>
          <web1:destinationCountry> string </web1:destinationCountry>
          <web1:destinationPostalCode> string </web1:destinationPostalCode>
          <web1:details>
            <!--Zero or more repetitions:-->
            <web1:LinearRequestDetail>
              <web1:linearFeet> string </web1:linearFeet>
              <!--You may enter ANY elements at this point-->
            </web1:LinearRequestDetail>
          </web1:details>
          <web1:originCountry> string </web1:originCountry>
          <web1:originPostalCode> string </web1:originPostalCode>
          <web1:shipmentDateCCYYMMDD> string </web1:shipmentDateCCYYMMDD>
          <web1:shipmentID> string </web1:shipmentID>
          <web1:tariffName> string </web1:tariffName>
          <!--You may enter ANY elements at this point-->
        </web1:LinearRateShipmentRequest>
      </web:LinearRateShipmentMultipleRequest>
    </web:LinearRateShipmentMultiple>
  </soapenv:Body>
</soapenv:Envelope>
```

sample

## LinearRateShipmentMultiple Request

| Argument   | Type                 | Required /Optional | Description   |
|--|----------------------|--------------------|---|
| LinearRateShipmentMultipleRequest<br><b>.destinationCity</b>           | string               | Optional           | Destination City (Maximum of 60 ascii characters)   |
| LinearRateShipmentMultipleRequest<br><b>.destinationState</b>          | string               | Optional           | Destination State (maximum of 2 ascii characters; must comply with associated postal code)  |
| LinearRateShipmentMultipleRequest<br><b>.discountApplication</b>       | string               | Optional           | R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".  |
| LinearRateShipmentMultipleRequest<br><b>.dicountPercentage</b>         | string               | Optional           | Discount (Max value of 99.99)   |
| LinearRateShipmentMultipleRequest<br><b>.maxLinearFeetAllowed</b>      | string               | Required           | Maximum Linear Feet Allowed (2 digits, no decimal, max value of 99)   |
| LinearRateShipmentMultipleRequest<br><b>.maxTrailerLengthOverride</b>  | string               | Required           | Maximum Trailer Length Override (2 digits, no decimal, max value of 99)   |
| LinearRateShipmentMultipleRequest<br><b>.mcDiscount</b>                | string               | Optional           | Minimum Charge Discount (Max value of 99.99)  |
| LinearRateShipmentMultipleRequest<br><b>.orgDestToGateWayPointFlag</b> | string               | Optional           | <i>Internal Use Only</i>  |
| LinearRateShipmentMultipleRequest<br><b>.originCity</b>                | string               | Optional           | Origin City (Maximum of 60 ascii characters)  |
| LinearRateShipmentMultipleRequest<br><b>.originState</b>               | string               | Optional           | Origin State (maximum of 2 ascii characters; must comply with associated postal code)   |
| LinearRateShipmentMultipleRequest<br><b>.rateAdjustmentFactor</b>      | string               | Optional           | A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 (Maximum value of 9.9999) |
| LinearRateShipmentMultipleRequest<br><b>.stopAlternationWeight</b>     | string               | Optional           | Max weight to stop the rating alternation. (Max value of 999999)  |
| LinearRateShipmentMultipleRequest<br><b>.Surcharge</b>                 | string               | Optional           | Surcharge percentage (Max value 99.99)  |
| LinearRateShipmentMultipleRequest<br><b>.surchargeApplication</b>      | string               | Optional           | G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges  |
| LinearRateShipmentMultipleRequest<br><b>.useDiscounts</b>              | string               | Optional           | (Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| LinearRateShipmentMultipleRequest<br><b>.userMinimumChargeFloor</b>    | string               | Optional           | Minimum floor charge entered by user. (Max value of 99999.99)   |
| LinearRateShipmentMultipleRequest<br><b>.destinationCountry</b>        | string               | Required           | Destination Country: USA, MEX, CAN (3 alpha)  |
| LinearRateShipmentMultipleRequest<br><b>.destinationPostalCode</b>     | string               | Required           | Destination Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No spaces or dashes.   |
| LinearRateShipmentMultipleRequest<br><b>.details</b>                   | complex (repeatable) | Required           | Zero or more repetitions (Max of 100 detail lines)  |
| LinearRateShipmentMultipleRequest<br><b>.details.linearFeet</b>        | string               | Required           | The linear feet for the specified shipment line. (Max value 99.9)   |
| LinearRateShipmentMultipleRequest<br><b>.originCountry</b>             | string               | Required           | Origin Country: USA, MEX, CAN (3 alpha)   |
| LinearRateShipmentMultipleRequest<br><b>.originPostalCode</b>          | string               | Required           | Origin Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No spaces or dashes.  |



*(LinearRateShipmentMultipleRequest Continued)*

|   |        |          |   |
|---|--------|----------|---|
| LinearRateShipmentMultipleRequest<br><b>.shipmentDateCCYYMMDD</b> | string | Required | Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| LinearRateShipmentMultipleRequest<br><b>.shipmentID</b>           | string | Optional | Shipment ID; Use any combination of letters and numbers to identify the shipment. (Max of 20 ascii characters)  |
| LinearRateShipmentMultipleRequest<br><b>.tariffName</b>           | string | Required | Tariff name (8 characters)  |

### 2.15.3 Output

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soap:Body>
    <ns1:LinearRateShipmentMultipleResponse xmlns:ns1="http://webservices.smc.com">
      <ns1:LinearRateShipmentMultipleResponse>
        <ns2:LinearRateShipmentResponse xmlns:ns2="http://web.linear.smc.com">
          <LHGrossCharge xmlns="http://web.linear.smc.com"> string </LHGrossCharge>
          <RBNO xmlns="http://web.linear.smc.com"> string </RBNO>
          <destinationCity xmlns="http://web.linear.smc.com"> string </destinationCity>
          <destinationState xmlns="http://web.linear.smc.com"> string </destinationState>
          <discountAmount xmlns="http://web.linear.smc.com"> string </discountAmount>
          <discountApplication xmlns="http://web.linear.smc.com"> string </discountApplication>
          <discountPctUsed xmlns="http://web.linear.smc.com"> string </discountPctUsed>
          <discountPercentage xmlns="http://web.linear.smc.com"> string </discountPercentage>
          <maxLinearFeetAllowed xmlns="http://web.linear.smc.com"> string </maxLinearFeetAllowed>
          <maxTrailerLengthOverride xmlns="http://web.linear.smc.com"> string </maxTrailerLengthOverride>
          <mcDiscount xmlns="http://web.linear.smc.com"> string </mcDiscount>
          <minimumCharge xmlns="http://web.linear.smc.com"> string </minimumCharge>
          <orgDestToGateWayPointFlag xmlns="http://web.linear.smc.com"> string </orgDestToGateWayPointFlag>
          <originCity xmlns="http://web.linear.smc.com"> string </originCity>
          <originState xmlns="http://web.linear.smc.com"> string </originState>
          <rateAdjustmentFactor xmlns="http://web.linear.smc.com"> string </rateAdjustmentFactor>
          <rateApplication xmlns="http://web.linear.smc.com"> string </rateApplication>
          <stopAlternationWeight xmlns="http://web.linear.smc.com"> string </stopAlternationWeight>
          <suffix xmlns="http://web.linear.smc.com"> string </suffix>
          <surcharge xmlns="http://web.linear.smc.com"> string </surcharge>
          <surchargeAmount xmlns="http://web.linear.smc.com"> string </surchargeAmount>
          <surchargeApplication xmlns="http://web.linear.smc.com"> string </surchargeApplication>
          <tblno xmlns="http://web.linear.smc.com"> string </tblno>
          <useDiscounts xmlns="http://web.linear.smc.com"> string </useDiscounts>
          <userMinimumChargeFloor xmlns="http://web.linear.smc.com"> string </userMinimumChargeFloor>
          <destinationCountry xmlns="http://web.linear.smc.com"> string </destinationCountry>
          <destinationPostalCode xmlns="http://web.linear.smc.com"> string </destinationPostalCode>
          <details xmlns="http://web.linear.smc.com">
            <LinearResponseDetail>
              <charge/> string </charge>
              <error> string </error>
              <linearFeet> string </linearFeet>
            </LinearResponseDetail>
          </details>
          <effectiveDate xmlns="http://web.linear.smc.com"> string </ effectiveDate >
          <errorCode xmlns="http://web.linear.smc.com"> string </errorCode>
          <originCountry xmlns="http://web.linear.smc.com"> string </originCountry>
          <originPostalCode xmlns="http://web.linear.smc.com"> string </originPostalCode>
          <shipmentDateCCYYMMDD xmlns="http://web.linear.smc.com"> string </shipmentDateCCYYMMDD>
          <shipmentID xmlns="http://web.linear.smc.com"> string </shipmentID>
          <tariffName xmlns="http://web.linear.smc.com"> string </tariffName>
          <totalCharge xmlns="http://web.linear.smc.com"> string </totalCharge>
        </ns2:LinearRateShipmentResponse>
      </ns1:LinearRateShipmentMultipleResponse>
    </ns1:LinearRateShipmentMultipleResponse>
  </soap:Body>
</soap:Envelope>
```

sample

# LinearRateShipmentMultipleResponse

\* indicates passed in the request

| Return Value  | Type   | Returned    | Description  |
|---|--------|-------------|--|
| LinearRateShipmentMultipleResponse<br><b>.LHGrossCharge</b>             | string | Always      | Line Haul Gross Charge Amount for the shipment (no discounts or accessorials) (2 decimal places)   |
| LinearRateShipmentMultipleResponse<br><b>.RBNO</b>                      | string | Always      | The rate basis number from the applicable tariff for the origin/destination postal code pair.  |
| LinearRateShipmentMultipleResponse<br><b>.destinationCity</b>           | string | Conditional | *Destination City (Maximum of 60 ascii characters)   |
| LinearRateShipmentMultipleResponse<br><b>.destinationState</b>          | string | Always      | *Destination State (maximum of 2 ascii characters; must comply with associated postal code).   |
| LinearRateShipmentMultipleResponse<br><b>.discountAmount</b>            | string | Always      | A dollar and cents amount of the calculated Discount (2 decimal places)  |
| LinearRateShipmentMultipleResponse<br><b>.discountApplication</b>       | string | Conditional | * R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".   |
| LinearRateShipmentMultipleResponse<br><b>.surchargePercentUsed</b>      | string | Always      | Surcharge Percent Used (2 decimal places)  |
| LinearRateShipmentMultipleResponse<br><b>.discountPercentage</b>        | string | Conditional | Discount (Maximum value of 99.99)  |
| LinearRateShipmentMultipleResponse<br><b>.maxLinearFeetAllowed</b>      | string | Always      | Maximum Linear Feet Allowed (2 digits, no decimal, max value of 99)  |
| LinearRateShipmentMultipleResponse<br><b>.maxTrailerLengthOverride</b>  | string | Always      | Maximum Trailer Length Override (2 digits, no decimal, max value of 99)  |
| LinearRateShipmentMultipleResponse<br><b>.mcDiscount</b>                | string | Conditional | *Minimum Charge Discount (2 decimal places)  |
| LinearRateShipmentMultipleResponse<br><b>.minimumCharge</b>             | string | Always      | Minimum Charge Amount for the shipment (2 decimal places)  |
| LinearRateShipmentMultipleResponse<br><b>.orgDestToGateWayPointFlag</b> | string | Conditional | <i>Internal Use Only</i>   |
| LinearRateShipmentMultipleResponse<br><b>.originCity</b>                | string | Conditional | *Origin City (Maximum of 60 ascii characters)  |
| LinearRateShipmentMultipleResponse<br><b>.originState</b>               | string | Always      | *Origin State (maximum of 2 ascii characters; must comply with associated postal code). State codes are returned even if they are not passed in the request.   |
| LinearRateShipmentMultipleResponse<br><b>.rateAdjustmentFactor</b>      | string | Conditional | *A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 |
| LinearRateShipmentMultipleResponse<br><b>.rateApplication</b>           | string | Always      | R = rated; M = minimum charge applied; F = Floor applied   |
| LinearRateShipmentMultipleResponse<br><b>.stopAlternationWeight</b>     | string | Conditional | * Maximum weight to stop the rating alternation. (Maximum value of 999999)   |
| LinearRateShipmentMultipleResponse<br><b>.suffix</b>                    | string | Always      | The rbno suffix from the applicable tariff for the origin/destination postal code pair.  |
| LinearRateShipmentMultipleResponse<br><b>.Surcharge</b>                 | string | Conditional | *Surcharge percentage (Maximum value 99.99)  |
| LinearRateShipmentMultipleResponse<br><b>.surchargeAmount</b>           | string | Always      | Surcharge Amount (2 decimal places)  |
| LinearRateShipmentMultipleResponse<br><b>.surchargeApplication</b>      | string | Conditional | * G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges   |
| LinearRateShipmentMultipleResponse<br><b>.tblno</b>                     | string | Always      | The table number from the applicable tariff for the origin/destination postal code pair.   |
| LinearRateShipmentMultipleResponse<br><b>.useDiscounts</b>              | string | Conditional | *(Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| LinearRateShipmentMultipleResponse<br><b>.userMinimumChargeFloor</b>    | string | Conditional | Minimum floor charge entered by user. (Maximum value of 99999.99)  |
| LinearRateShipmentMultipleResponse<br><b>.destinationCountry</b>        | string | Always      | *Destination Country: USA, MEX, CAN (3 alpha)  |

*(LinearRateShipmentMultipleResponse Continued)*

|   |                             |             |  |
|---|-----------------------------|-------------|--|
| LinearRateShipmentMultipleResponse<br><b>.destinationPostalCode</b> | string                      | Always      | *Destination Postal Code   |
| LinearRateShipmentMultipleResponse<br><b>.details</b>               | complex<br>(repeata<br>ble) | Always      | Zero or more repetitions (Max of 100 detail lines)   |
| LinearRateShipmentMultipleResponse<br>.details. <b>charge</b>       | string                      | Always      | The charge for the shipment line (2 decimal places)  |
| LinearRateShipmentMultipleResponse<br>.details. <b>error</b>        | string                      | Conditional | Returns code only if error exists.   |
| LinearRateShipmentMultipleResponse<br>.details. <b>linearFeet</b>   | string                      | Always      | *Linear Feet (Max 99.9)  |
| LinearRateShipmentMultipleResponse<br><b>.effectiveDate</b>         | string                      | Always      | Tariff Effective Date (CCYYMMDD)   |
| LinearRateShipmentMultipleResponse<br><b>.errorCode</b>             | string                      | Conditional | Returns code only if error exists.   |
| LinearRateShipmentMultipleResponse<br><b>.originCountry</b>         | string                      | Always      | *Origin Country: USA, MEX, CAN (3 alpha)   |
| LinearRateShipmentMultipleResponse<br><b>.originPostalCode</b>      | string                      | Always      | *Origin Postal code  |
| LinearRateShipmentMultipleResponse<br><b>.shipmentDateCCYYMMDD</b>  | string                      | Always      | *Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| LinearRateShipmentMultipleResponse<br><b>.shipmentID</b>            | string                      | Conditional | *Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)  |
| LinearRateShipmentMultipleResponse<br><b>.tariffName</b>            | string                      | Always      | *Tariff name (8 characters)  |
| LinearRateShipmentMultipleResponse<br><b>.totalCharge</b>           | string                      | Always      | The NET charge for the shipment - Gross charge plus accessorial charges and applied discounts (2 decimal places)   |

## 2.16 LinearRateShipmentMultipleOpt

### 2.16.1 Description

This service is used to rate multiple shipments using binary input. The service supports the application of discounts, minimum charge floor, and other factors to produce a highly accurate pricing response.

## 2.16.2 Input

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:web="http://webservices.smc.com">
  <soapenv:Header>
    <web:AuthenticationToken>
      <web:licenseKey> string </web:licenseKey>
      <web:password> string </web:password>
      <web:username> string </web:username>
      <!--You may enter ANY elements at this point-->
    </web:AuthenticationToken>
  </soapenv:Header>
  <soapenv:Body>
    <web:LinearRateShipmentMultipleOpt>
      <web:LinearRateShipmentMultipleOptDelimitedRequest> string
    </web:LinearRateShipmentMultipleOptDelimitedRequest>
    </web:LinearRateShipmentMultipleOpt>
  </soapenv:Body>
</soapenv:Envelope>
```

sample

### LinearRateShipmentMultipleOpt Request

| Argument  | Type                    | Required/<br>Optional | Description   |
|---|-------------------------|-----------------------|---|
| <b>byte [ ]</b>   | Delimited<br>byte array | Required              | Comma delimited   |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.shipmentID</b>           | string                  | Optional              | Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters)  |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.tariffName</b>           | string                  | Required              | Tariff name (8 characters)  |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.shipmentDateCCYYMMDD</b> | string                  | Required              | Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.originPostalCode</b>     | string                  | Required              | Origin Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No spaces or dashes.  |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.originCity</b>           | string                  | Optional              | Origin City (Maximum of 60 ascii characters)  |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.originState</b>          | string                  | Optional              | Origin State (maximum of 2 ascii characters; must comply with associated postal code)   |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.originCountry</b>        | string                  | Required              | Origin Country: USA, MEX, CAN (3 alpha)   |

(LinearRateShipmentMultipleOpt Request Continued)

|  |        |          |   |
|--|--------|----------|---|
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.destinationPostalCode</b>     | string | Required | Destination Postal Code; USA = 3 or 5 numeric characters; MEX = 5 numeric characters; CAN = 3, 5, or 6 alpha numeric characters. No spaces or dashes.   |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.destinationCity</b>           | string | Optional | Destination City (Maximum of 60 ascii characters)   |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.destinationState</b>          | string | Optional | Destination State (maximum of 2 ascii characters; must comply with associated postal code)  |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.destinationCountry</b>        | string | Required | Destination Country: USA, MEX, CAN (3 alpha)  |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.useDisc</b>                   | string | Optional | (Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.discountApplication</b>       | string | Optional | R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".  |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.userMCFloor</b>               | string | Optional | Minimum floor charge entered by user. (Maximum value of 99999.99)   |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.useSingleShipment</b>         | string | Optional | (Y/N); "N" indicates the system should rate the bill as a multiple shipment. "Y" indicates the system should rate the bill as a single shipment. This field is only applicable when the shipment uses a tariff that uses single shipment charges. The default for this field is "N".  |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.rateAdjustmentFactor</b>      | string | Optional | A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 (Maximum value of 9.9999) |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.orgDestToGateWayPointFlag</b> | string | Optional | <i>Internal Use Only</i>  |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.mcDiscount</b>                | string | Optional | Minimum Charge Discount (Maximum value of 99.99)  |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.Surcharge</b>                 | string | Optional | Surcharge percentage (Maximum value 99.99)  |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.TL_Surcharge</b>              | string | Optional | TL surcharge percentage (Maximum value 99.99)   |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.stopAlternationWeight</b>     | string | Optional | Maximum weight to stop the rating alternation. (Maximum value of 999999)  |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.surchargeApplication</b>      | string | Optional | G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges  |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.Discount</b>                  | string | Optional | Discount (Maximum value of 99.99)   |
| LinearRateShipmentMultipleOptDelimitedRequest<br><b>.filler</b>                    | string | Optional | Filler  |
| LinearRateShipmentMultipleOptDelimitedRequest<br>details. <b>linearFeet</b>        | string | Required | The Linear Feet of the specified shipment line.   |

### 2.16.3 Output

XML Sample (Please see Section 1.1 concerning limitations of this XML Sample)

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soap:Body>
    <ns1:LinearRateShipmentMultipleOptResponse xmlns:ns1="http://webservices.smc.com">
      <ns1:LinearRateShipmentMultipleOptDelimitedResponse ns2:mimeType="application/octet-stream"
xmlns:ns2="http://www.w3.org/2004/11/xmlmime"> string </ns1:LinearRateShipmentMultipleOptDelimitedResponse>
    </ns1:LinearRateShipmentMultipleOptResponse>
  </soap:Body>
</soap:Envelope>
```

sample

#### LinearRateShipmentMultipleOpt Response

| Return Value  | Type                 | Returned    | Description   |
|---|----------------------|-------------|---|
| <b>byte [ ]</b>   | Delimited byte array | Always      | Comma delimited   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.errorCode</b>             | string               | Conditional | Returns code only if error exists.  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.shipmentDateCCYYMMDD</b>  | string               | Always      | Shipment Date (CCYYMMDD). This field is used to select the desired tariff module for rating. If the actual shipment date is passed in this field, RateWareXL will select the appropriate tariff module in effect based on the shipment date and Tariff name passed. If the user wants to specify a specific tariff module for rating (regardless the of actual shipment date), passing the effective date of the tariff module will rate the shipment based on that effective date. |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.originCountry</b>         | string               | Always      | Origin Country: USA, MEX, CAN (3 alpha)   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.originPostalCode</b>      | string               | Always      | Origin Postal Code  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.originCity</b>            | string               | Conditional | Origin City (Maximum of 60 ascii characters)  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.originState</b>           | string               | Conditional | Origin State (maximum of 2 ascii characters; must comply with associated postal code)   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.destinationCountry</b>    | string               | Always      | Destination Country: USA, MEX, CAN (3 alpha)  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.destinationPostalCode</b> | string               | Always      | Destination Postal Code   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.destinationCity</b>       | string               | Conditional | Destination City (Maximum of 60 ascii characters)   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.destinationState</b>      | string               | Conditional | Destination State (maximum of 2 ascii characters; must comply with associated postal code)  |

*(LTLRateShipmentMultipleOpt Response Continued)*

|   |        |             |   |
|---|--------|-------------|---|
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.useSingleShipment</b>         | string | Conditional | (Y/N); "N" indicates the system should rate the bill as a multiple shipment. "Y" indicates the system should rate the bill as a single shipment. This field is only applicable when the shipment uses a tariff that uses single shipment charges. The default for this field is "N".  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.rateAdjustmentFactor</b>      | string | Conditional | A factor that increases or decreases rates by a specific percentage. The factor is applied to the rates and uses the adjusted rates in calculating charges. 1.5000 would increase rates 50%, 0.7500 would decrease rates 25%. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff minimum charge (MC). Default is 1.0000 (Maximum value of 9.9999) |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.useDisc</b>                   | string | Conditional | (Y/N); "N" indicates that discounts should not be applied. "Y" indicates that discounts should be applied. The default for this field is "N".   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.discountApplication</b>       | string | Conditional | R=Rates, C=Charges. "R" means apply discount to the rates. "C" means apply discounts to the Charges. Default is "C".  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.Discount</b>                  | string | Conditional | Discount (Maximum value of 99.99)   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.mcDiscount</b>                | string | Conditional | Minimum Charge Discount (2 decimal places)  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.userMCFloor</b>               | string | Conditional | Minimum floor charge entered by user. (Maximum value of 99999.99)   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.Surcharge</b>                 | string | Conditional | Surcharge percentage (Maximum value 99.99)  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.TL_Surcharge</b>              | string | Conditional | TL surcharge percentage (Maximum value 99.99)   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.surchargeApplication</b>      | string | Conditional | G=Gross, N=Net. "G" means a surcharge applied to gross charges; "N" means a surcharge applied to net charges  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.surchargePercentUsed</b>      | string | Always      | Surcharge Percent Used (2 decimal places)   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.surchargeAmount</b>           | string | Always      | Surcharge Amount (2 decimal places)   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.orgDestToGateWayPointFlag</b> | string | Conditional | <i>Internal Use Only</i>  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.tableNumber</b>               | string | Always      | The table number from the applicable tariff for the origin/destination postal code pair.  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.RBNO</b>                      | string | Always      | The rate basis number from the applicable tariff for the origin/destination postal code pair.   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.suffix</b>                    | string | Always      | The rbno suffix from the applicable tariff for the origin/destination postal code pair.   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.actualWgt</b>                 | string | Always      | The real weight of the shipment, not including any applicable deficit weight (whole number)   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.billedWgt</b>                 | string | Always      | The weight at which the shipment is rated; Actual Weight or Actual Weight plus Deficit Weight (whole number)  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.LHGrossCharge</b>             | string | Always      | Line Haul Gross Charge Amount for the shipment (no discounts or accessorial) (2 decimal places)   |



*(LTLRateShipmentMultipleOpt Response Continued)*

|   |        |             |   |
|---|--------|-------------|---|
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.minimumCharge</b>         | string | Always      | Minimum Charge Amount for the shipment (2 decimal places)   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.absoluteMCFloor</b>       | string | Conditional | Absolute Minimum Charge amount for the shipment (2 decimal places)  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.deficitRate</b>           | string | Conditional | The rate for the deficit weight/class (2 decimal places)  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.deficitWeight</b>         | string | Always      | The amount of additional weight necessary for the use of lower rates (whole number)                                 |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.deficitCharge</b>         | string | Conditional | The charge for deficit weight, if any (2 decimal places)  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.totalCharge</b>           | string | Always      | The NET charge for the shipment - Gross charge plus accessorial charges and applied discounts (2 decimal places)    |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.discountPctUsed</b>       | string | Always      | The percentage used in the rating processes based on the Billed Weight. (2 decimal places)                          |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.discountAmountUsed</b>    | string | Always      | A dollar and cents amount of the calculated Discount.   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.shipmentID</b>            | string | Conditional | *Shipment ID; Use any combination of letters and numbers to identify the shipment. (Maximum of 20 ascii characters) |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.tariffName</b>            | string | Always      | *Tariff name (8 characters)   |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.effectiveDate</b>         | string | Always      | Tariff Effective Date (CCYYMMDD)  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.stopAlternationWeight</b> | string | Conditional | Maximum weight to stop the rating alternation. (Maximum value of 999999)  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.rateApplication</b>       | string | Always      | R = Rated; M = Minimum charge applied;<br>F = Floor applied; D = Dim charge applied                                 |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.detailError_1</b>         | string | Conditional | Returns code only if error exists.  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.linearFeet_1</b>          | string | Always      | *The linear feet for the specified shipment line (1 decimal place)  |
| LinearRateShipmentMultipleOptDelimitedResponse<br><b>.detailRate_1</b>          | string | Always      | The rate for the specified shipment line (2 decimal places)   |

## Appendix A – State/Province Codes

### U.S. State Codes

The following table lists the state codes of the U.S.

| State         | Code | State          | Code |
|---------------|------|----------------|------|
| Alabama       | AL   | Montana        | MT   |
| Alaska        | AK   | Nebraska       | NE   |
| Arizona       | AZ   | Nevada         | NV   |
| Arkansas      | AR   | New Hampshire  | NH   |
| California    | CA   | New Jersey     | NJ   |
| Colorado      | CO   | New Mexico     | NM   |
| Connecticut   | CT   | New York       | NY   |
| Delaware      | DE   | North Carolina | NC   |
| Florida       | FL   | North Dakota   | ND   |
| Georgia       | GA   | Ohio           | OH   |
| Hawaii        | HI   | Oklahoma       | OK   |
| Idaho         | ID   | Oregon         | OR   |
| Illinois      | IL   | Pennsylvania   | PA   |
| Indiana       | IN   | Rhode Island   | RI   |
| Iowa          | IA   | South Carolina | SC   |
| Kansas        | KS   | South Dakota   | SD   |
| Kentucky      | KY   | Tennessee      | TN   |
| Louisiana     | LA   | Texas          | TX   |
| Maine         | ME   | Utah           | UT   |
| Maryland      | MD   | Vermont        | VT   |
| Massachusetts | MA   | Virginia       | VA   |
| Michigan      | MI   | Washington     | WA   |
| Minnesota     | MN   | West Virginia  | WV   |
| Mississippi   | MS   | Wisconsin      | WI   |
| Missouri      | MO   | Wyoming        | WY   |

## Canada Province Codes

The following table lists the province codes of Canada:

| <b>Canadian Province / Territory</b> | <b>Code</b> |
|--------------------------------------|-------------|
| Alberta                              | AB          |
| Newfoundland                         | NL          |
| Prince Edward Island                 | PE          |
| British Columbia                     | BC          |
| Northwest Territories                | NT          |
| Nunavut                              | NU          |
| Quebec                               | QC          |
| Manitoba                             | MB          |
| Nova Scotia                          | NS          |
| Saskatchewan                         | SK          |
| New Brunswick                        | NB          |
| Ontario                              | ON          |
| Yukon                                | YT          |

## Mexico State Codes

***Currently, RateWareXL will only allow one Mexico state code.***

| State            | Code |
|------------------|------|
| Estado de Mexico | MX   |

## Appendix B – Error Codes

| Code | Description                                     | Error Type | Resolution  |
|------|---|------------|---|
| -1   | Fatal Error. Check the log file for details.    | Server     | Please contact SMC3 Technical Support at 1-800-272-3425. Reference Error Code -1.   |
| -2   | Warning. Turn on logging for details            | Server     | Please contact SMC3 Technical Support at 1-800-272-3425. Reference Error Code -2.   |
| 0    | Function Success                                | Client     | No error  |
| 1    | Unknown Error                                   | Server     | Please contact SMC3 Technical Support at 1-800-272-3425. Reference Error Code 1.  |
| 2    | Open File error                                 | Server     | Please contact SMC3 Technical Support at 1-800-272-3425. Reference Error Code 2.  |
| 3    | Read File error                                 | Server     | Please contact SMC3 Technical Support at 1-800-272-3425. Reference Error Code 3.  |
| 4    | Memory Allocation error                         | Server     | Please contact SMC3 Technical Support at 1-800-272-3425. Reference Error Code 4.  |
| 5    | Invalid OrgDestToGateWayPoint Flag              | Client     | Please contact SMC3 Technical Support at 1-800-272-3425. Reference Error Code 5.  |
| 6    | Class Not Found                                 | Client     | Please use the proper NMFC class.   |
| 7    | Invalid Weight                                  | Client     | Please verify the weight for each detail line is between 1 and 999999.  |
| 9    | Invalid discount                                | Client     | Please ensure the discount is numeric and does not exceed 99.99   |
| 10   | Invalid origin postal code                      | Client     | Please ensure the postal code is correct.   |
| 11   | Origin postal code not in tariff                | Client     | Please ensure the origin postal code is correct. It is possible the postal code is not valid for the effective date of the tariff.  |
| 12   | Invalid destination postal code                 | Client     | Please ensure the postal code is correct.   |
| 13   | Destination postal code not in tariff           | Client     | Please ensure the destination postal code is correct. It is possible the postal code is not valid for the effective date of the tariff.   |
| 14   | Origin/Destination combination not in tariff    | Client     | The postal code combination is not within the territory governed by the tariff you are using. If you are certain both postal codes are part of the territory, then it is possible that the postal code pair is only valid in one direction. |
| 15   | Tariff name must be specified                   | Client     | Please enter the tariff name for a currently installed tariff.  |
| 16   | Invalid shipment detail                         | Client     | Please verify shipment detail lines.  |
| 17   | Invalid shipment date                           | Client     | Please ensure the shipment date is in CCYYMMDD format and falls within the effective date of the tariff.  |
| 21   | Ratebase number not found                       | Server     | Please contact SMC3 Technical Support at 1-800-272-3425. Reference Error Code 21.   |
| 22   | Maximum number of lane adjustment hits exceeded | Server     | Please contact SMC3 Technical Support at 1-800-272-3425. Reference Error Code 22.   |
| 23   | No GateWay Flag                                 | Client     | Please contact SMC3 Technical Support at 1-800-272-3425. Reference Error Code 23.   |
| 24   | Invalid country code/postal code combination    | Client     | The postal code does not exist in the country code specified. Please ensure the postal code and country codes are correct.  |

*(Error Codes Continued)*

|    |  |        |  |
|----|--|--------|--|
| 25 | Lane adjustments process error                     | Server | Please contact SMC3 Technical Support at 1-800-272-3425. Reference Error Code 25.  |
| 26 | Unable to open log file                            | Server | Please contact SMC3 Technical Support at 1-800-272-3425. Reference Error Code 26.  |
| 27 | No detail lines found for this shipment            | Client | Please enter detail lines for this shipment before continuing.   |
| 28 | Invalid origin country                             | Client | Please ensure the origin country contains only letters and does not exceed 3 characters.   |
| 29 | Invalid destination country                        | Client | Please ensure the destination country contains only letters and does not exceed 3 characters.  |
| 30 | Invalid single shipment, flag must be Y/N          | Client | Please verify single shipment equals "Y" or "N".   |
| 31 | More than 100 detail lines found for this shipment | Client | Please reduce the number of detail lines to less than or equal to 100 for this shipment.   |
| 32 | Tariff not found                                   | Client | Either the Data Module you want to use has not been installed or the Tariff Name is invalid.   |
| 33 | Invalid rate adjustment factor                     | Client | Please ensure the rate adjustment factor is numeric and does not exceed 9.9999   |
| 34 | Invalid use discount, flag must be Y/N             | Client | "Y"=Use supplied discounts; "N"=Ignore the supplied discounts  |
| 35 | Invalid discount application, flag must be R/C     | Client | Please verify discount application equals "R" or "C". "R" = discount applied to rates, "C" = discount applied to charges.  |
| 36 | Invalid MC floor                                   | Client | Please ensure the minimum charge floor amount is numeric and does not exceed 99999.99  |
| 37 | Invalid LTL surcharge percentage                   | Client | Please verify the LTL surcharge percentage is numeric and does not exceed 99.99  |
| 38 | Invalid TL surcharge percentage                    | Client | Please verify the TL surcharge percentage is numeric and does not exceed 99.99   |
| 39 | Invalid surcharge application, flag must be G/N    | Client | Please verify surcharge application equals "G" or "N". "G"=surcharge applied to gross charges, "N"=surcharge applied to net charges                                    |
| 40 | Invalid stop alternation weight                    | Client | Please verify the Stop Alternation weight does not exceed 999999.  |
| 41 | Invalid shipment ID                                | Client | Please verify shipment ID does not exceed 20 ascii characters.   |
| 42 | Corrupt file                                       | Server | Please contact SMC3 Technical Support at 1-800-272-3425. Reference Error Code 42.  |
| 44 | Invalid director version                           | Server | Please contact SMC3 Technical Support at 1-800-272-3425. Reference Error Code 44.  |
| 45 | Invalid state/postal code combination              | Client | The postal code does not exist in the state specified or the state abbreviation is invalid.  |
| 46 | Density not found                                  | Client | Please verify density. Value must be numeric and cannot exceed 9999.99   |
| 47 | Invalid type                                       | Client | Please verify detail type. "Density"=density and weight of line item, "CUBE"=cube and weight of line item, "LWH"=length, width and height and the weight of line item. |
| 48 | Invalid pieces                                     | Client | Please verify total shipment pieces is numeric and does not exceed 999999.   |
| 49 | Invalid density units                              | Client | Please verify density units. L=pounds/feet <sup>3</sup> , K=kilograms/meters <sup>3</sup>  |

*(Error Codes Continued)*

|    |  |        |  |
|----|--|--------|--|
| 50 | Invalid dimension Units                  | Client | Please verify dimension units. F=feet; M=meters; I=inches; C=centimeters   |
| 51 | Invalid weight Units                     | Client | Please verify weight units. L=pounds, K=kilograms  |
| 52 | Invalid cube                             | Client | Please ensure the cube units are valid and the total cube of the shipment is numeric and does not exceed 99999999999.9   |
| 53 | Invalid length                           | Client | Please ensure the total length of the shipment is numeric and does not exceed 9999.99.   |
| 54 | Invalid width                            | Client | Please ensure the total width of the shipment is numeric and does not exceed 9999.99   |
| 55 | Invalid height                           | Client | Please ensure the total height of the shipment is numeric and does not exceed 9999.99.   |
| 56 | Invalid dimming density                  | Client | Please ensure dimming density is numeric and does not exceed 9999.99 for L or K units.   |
| 57 | Invalid dimming factor                   | Client | Please ensure dimming factor is numeric and does not exceed 9999.99 for I and C units.   |
| 58 | Invalid dimming units                    | Client | Dimming units must be L=pounds/feet <sup>3</sup> or K=kilograms/meters <sup>3</sup> if using a dimming density or I=inches <sup>3</sup> /pound or C=centimeters <sup>3</sup> /kilogram if using a dimming factor |
| 59 | Invalid use dimming minimum charge flag  | Client | Please ensure the dimming minimum charge flag equals "Y" or "N". "Y"=Allow Minimum Charges to apply; "N"=Do not use minimum charges  |
| 60 | Point Selection required                 | Client | A Point Selection is required.   |
| 61 | Invalid Country Code                     | Client | Please ensure the Country Code is correct.   |
| 62 | Invalid Postal Code                      | Client | Please ensure the Postal Code is correct.  |
| 63 | Invalid Province/State Code              | Client | Please ensure the Province/State Code is correct.  |
| 64 | Invalid Origin/Destination Flag          | Client | Please ensure the Origin/Destination Flag is correct.  |
| 65 | Invalid Page Number                      | Client | Please ensure the Page Number is correct.  |
| 66 | Point List not supported for this tariff | Client | The Point List is not supported for this tariff.   |
| 67 | Invalid Page Number this request         | Client | Please ensure the Page Number is correct.  |
| 68 | Postal Code required                     | Client | A Postal Code is required.   |
| 69 | Method Not Supported                     | Client | The Method is not supported. Please correct.   |
| 70 | Invalid Point                            | Client | Please ensure the Point is correct.  |
| 71 | Invalid Linear Feet                      | Client | Please ensure that Linear Feet is correct.   |
| 72 | Invalid Max Linear Feet Allowed          | Client | Please ensure the Max Linear Feet Allowed is correct.  |

*(Error Codes Continued)*

|    |                                     |        |  |
|----|-------------------------------------|--------|--|
| 73 | Invalid Max Trailer Length Override | Client | Please ensure the Max Trailer Length Override is correct.  |
| 74 | Maximum Linear Feet Exceeded        | Client | The Maximum Linear Feet has been exceeded. Please correct. |
| 75 | Invalid Linear Surcharge Percentage | Client | Please ensure the Linear Surcharge Percentage is correct.  |



## Appendix C – Frequently Asked Questions

- **Absolute Floor**- The absoluteMCFloor will only be returned in the response IF the data module being used has built in Floors in the dataset. Discounts will not apply to this argument.
- **Deficit Rating** - As a shipment increases in weight, the rate per 100 pounds will decrease. Within each weight break there is generally a point at which the charge would be lower if a higher weight break were used (alternation). This is when deficit weight rating is used. The weight necessary to take the shipment up to the higher weight break is added to the shipment so that the shipper gets the benefit of the lower rate.
- **Floor** - A Floor is an (contractual) minimum charge that is not subject to discounting. If the calculated charge goes below the Floor, the system uses the Floor rather than the calculated charge.
- **Minimum Charge (MC)** - A (tariff) minimum charge is included in the dataset used to build a data module for low weight movements. The amount of the MC may vary for each origin/destination combination. If the shipment Net Charge is less than the Minimum Charge, then the Minimum Charge will apply. The MC can be discounted. The rate adjustment factor alters all of the rates in the dataset of a tariff including tariff Minimum Charge.
- **MC Discount**- RWXL compares the shipment Net Charge to the discounted Minimum Charge, if the Minimum Charge is higher than the Net Charge the Minimum Charge will apply. However, if the calculated Minimum Charge totals less than the Floor, the Floor Charge will apply.
- **Origin/Destination Postal Code**- 98% of SMC<sup>3</sup>'s tariffs are built on a 5 digit base.
- **Port 80** - RWXL utilizes the default port 80 for http traffic.
- **Rate Alternation Guidelines:**
  - The LTL weights only alternate forward. They are allowed to alternate through all weight breaks unless restricted by the Carriers specifications.
  - The TL weights also alternate forward through the remaining weight breaks. The TL weights also alternate backwards to the last LTL weight break (M10M, unless otherwise defined by the Carriers specifications).
  - The M40M level will not alternate backwards.
- **SSL** - RWXL supports SSL.
- **Surcharge** - Surcharge allows the adjustment of the net/gross charge by a specific percentage. Traditionally this field is used for the fuel surcharge.
- **Weight Breaks Discounts** – The weight break discounts allow you to pass a discount to be applied for each weight break during the rating process. Weight Breaks are governed by each individual tariff--the standard weight breaks are listed in the notes sections of this document. The appropriate discount amount should be entered in all applicable weightBreak\_discount fields. RWXL determines which rate level to use.  
weightBreak\_Discount\_10 – Discount- reserved for future enhancement.  
weightBreak\_Discount\_11 – Discount- reserved for future enhancement.

## Appendix D – NMFC Classifications

### NMFC Classes

|           |
|-----------|
| 50        |
| 55        |
| 60        |
| 65        |
| 70        |
| 77.5 (77) |
| 85        |
| 92.5 (92) |
| 100       |
| 110       |
| 125       |
| 150       |
| 175       |
| 200       |
| 250       |
| 300       |
| 400       |
| 500       |

Max field length - 4 positions