

API Developer Notes

Rental Car Booking and Shopping

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Overview

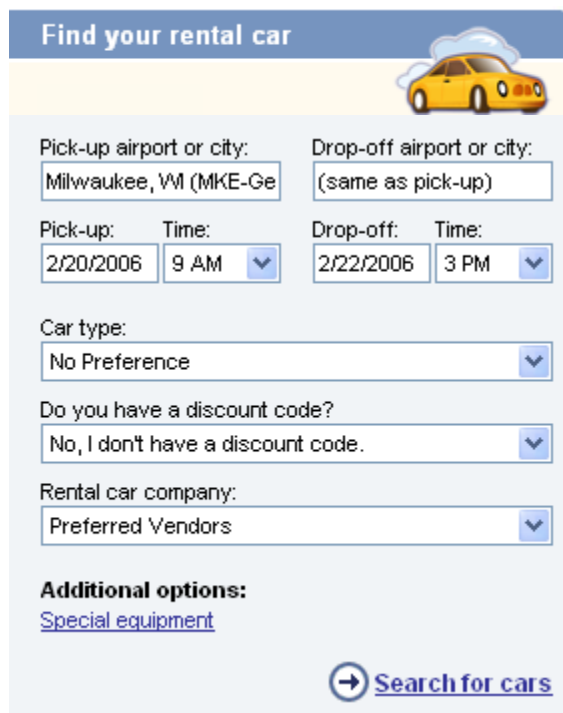
This document describes how to use the CarMatrix_# transaction to shop for car availability and rates. This document also details car rules and description information, as well as the correct way to book a rental car.

Finding Car Availability and Rates

Minimal information is needed to find car availability and rates: a pick-up date, a drop-off date, and a location. However, depending on your intended user base, you may want users to enter preferred vendors, preferred car types, and corporate discount numbers.

Other considerations include where the user will pick-up the car—city locations versus the airport—and whether to allow different pick-up and drop-off locations. Some sites do not support different pick-up and drop-off locations, as it complicates the process.

Given these considerations, your starting point might look like this:



The screenshot shows a web form for finding a rental car. At the top is a blue header with the text "Find your rental car" and a small yellow car icon. Below the header, the form is organized into several sections. The first section has two columns: "Pick-up airport or city:" with a text input containing "Milwaukee, WI (MKE-Ge)" and "Drop-off airport or city:" with a dropdown menu showing "(same as pick-up)". The second section has two columns: "Pick-up:" with a date input "2/20/2006" and a time dropdown "9 AM", and "Drop-off:" with a date input "2/22/2006" and a time dropdown "3 PM". The third section has a "Car type:" dropdown menu with "No Preference" selected. The fourth section has a "Do you have a discount code?" dropdown menu with "No, I don't have a discount code." selected. The fifth section has a "Rental car company:" dropdown menu with "Preferred Vendors" selected. Below these is a section titled "Additional options:" with a link "Special equipment". At the bottom right is a blue button with a right arrow and the text "Search for cars".

If the traveller has already booked a flight on your site, it is good practice to pre-populate the pick-up and drop-off dates and times, and the pick-up location, as shown in the preceding image above. As in any user interface, the traveller should be prohibited from entering invalid information, such as dates that have already passed, dates far into the future and drop-off dates that are before the pick-up date. Keep in mind that a car can be picked up and dropped off on the same day, however.

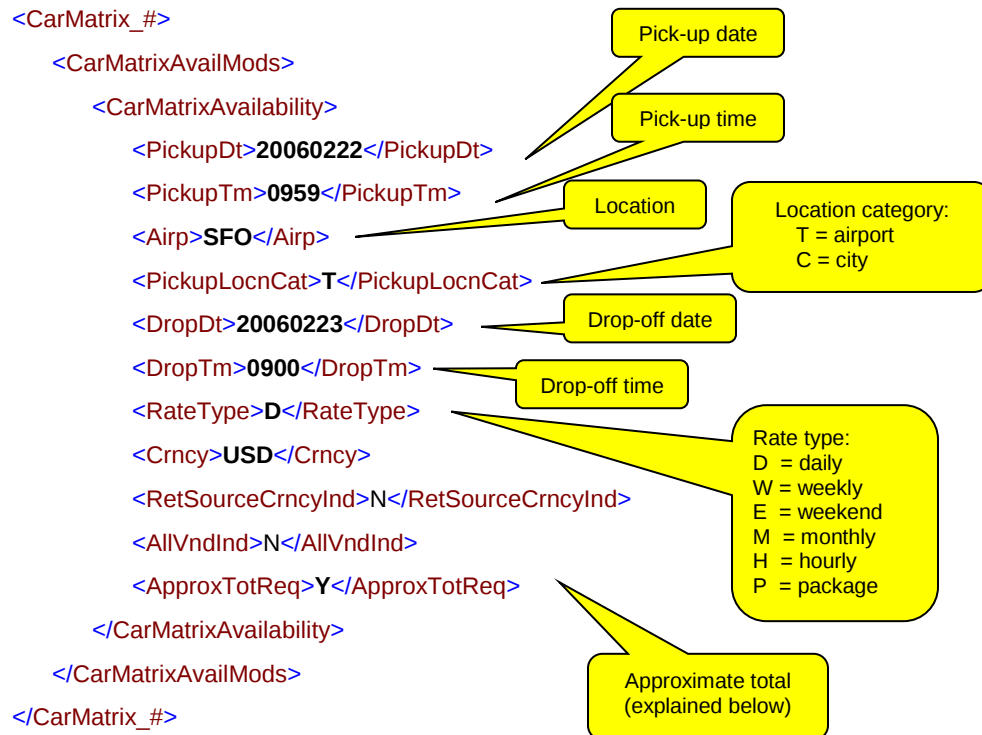
It is also helpful to dynamically validate the pick-up and drop-off locations. These locations can be airport or city codes, or actual airport or city names. In some cases, the city and airport code are the same (e.g., DEN for Denver), while in other cases the city and airport code are different (e.g., NYC for New York, with airports JFK and LGA).

Many cities have the same name (e.g., there are 25 cities named "Springfield" in the US), and the name must be clarified before submitting the availability request. It is a good practice to verify the location entries against Galileo's Reference Data for cities and airports. Depending on the product, Reference Data (also known as *local data*) is available for download or is distributed with the product. It is also possible to use Reference Data to search for matches on partial names.

The CarMatrix_# request obtains both availability and rates at the same time. It was designed to return all car types and rates available for a location. A typical request for cars available at an airport looks like the following Simple Availability Request.

Simple Availability Request

The following request searches for a car that has the same pick-up and drop-off location, so the drop-off location is not specified.



Notice that several different rate types can be specified. If the rental period is less than a week, specify *daily*. If the rental period is more than a week, specify *weekly*. Other applicable rates are generally returned if they are available.

Availability Request with Vendor Preferences

Add one or more vendor information sections to the request to specify preferred vendors:

```
<CarMatrix_#>
  <CarMatrixAvailMods>
    <CarMatrixAvailability>
      <PickupDt>20060222</PickupDt>
      <PickupTm>0959</PickupTm>
      <Airp>SFO</Airp>
      <PickupLocnCat>C</PickupLocnCat>
      <DropDt>20060302</DropDt>
      <DropTm>0900</DropTm>
      <RateType>W</RateType>
      <Crncy>USD</Crncy>
      <RetSourceCrncyInd>N</RetSourceCrncyInd>
      <AllVndInd>N</AllVndInd>
      <ApproxTotReq>Y</ApproxTotReq>
    </CarMatrixAvailability>
    <CarMatrixVndInfo>
      <Vnd>ZI</Vnd>
    </CarMatrixVndInfo>
    <CarMatrixVndInfo>
      <Vnd>ZE</Vnd>
    </CarMatrixVndInfo>
  </CarMatrixAvailMods>
</CarMatrix_#>
```

Use this field to get rates in other currencies.

Vendor preferences

Because the CarMatrix_# request is intended to return all availability for a location, there is no way to specify car type preferences. However, you can filter the response to return only certain car types to the user.

Availability Response

The response contains static information that applies to all vendors and rates, as well as location and rate information for each vendor. The applicable location and rate information is repeated for each vendor. The following portion of a response shows the data applicable to all vendors and rates.

```
<CarMatrix_# xmlns="">
```

```
  <CarMatrixAvail>
```

```
    <CarMatrixStaticInfo>
```

```
      <RespType>0</RespType>
```

```
      <ErrMsg/>
```

```
      <RefPt>SAN FRANCISCO INTL ARPT</RefPt>
```

```
      <City>SFO</City>
```

```
      <State>CA</State>
```

```
      <Country>US</Country>
```

```
      <DistUnit>M</DistUnit>
```

```
      <RateTypeDesc>DAILY</RateTypeDesc>
```

```
      <RateCatDesc> STND/PROM</RateCatDesc>
```

```
      <Crncy>USD</Crncy>
```

```
      <DecPos>2</DecPos>
```

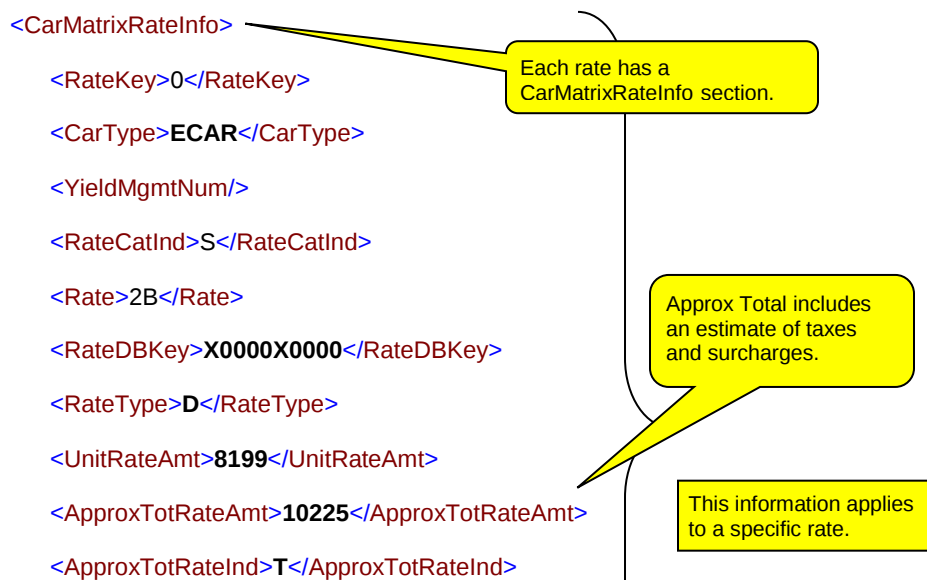
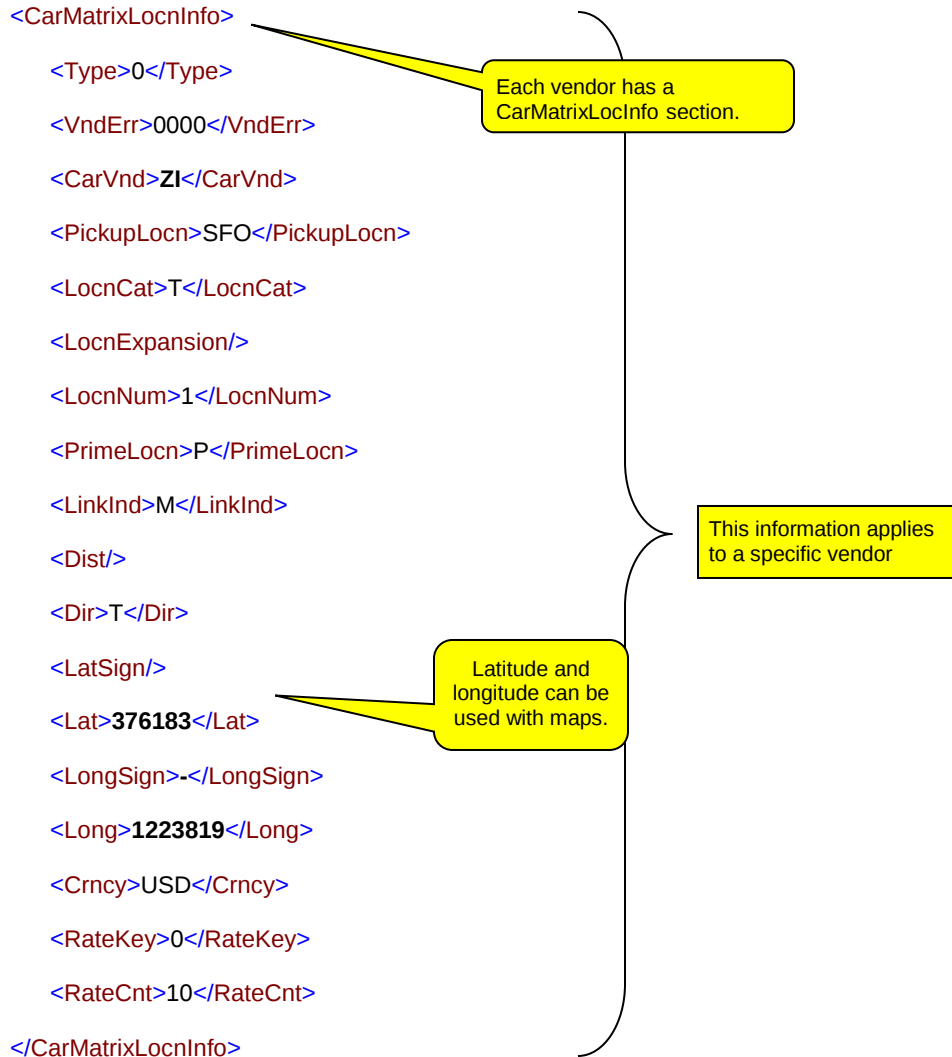
```
      <TruncDecInd>N</TruncDecInd>
```

```
      <AltRateInd>0</AltRateInd>
```

```
      <TotCnt>9</TotCnt>
```

```
    </CarMatrixStaticInfo>
```

The information in CarMatrixStaticInfo applies to all vendors and rates.



```
<MileRateAmt>0</MileRateAmt>

<MileAllow>UNL</MileAllow>

<FullyQualRateInd>Y</FullyQualRateInd>

<DropChargeInd/>

<RateGuarInd>G</RateGuarInd>

<AvailInd>S</AvailInd>

<PrePayInd/>

</CarMatrixRateInfo>
```

Generally, vendor and rate information is presented to the traveller for their selection. If necessary, the rate information can be filtered based on the value of <CarType>. Note that the pick-up and drop-off dates are not echoed in the response and must be programmatically remembered from the request.

The rate can be determined from the unit rate amount <UnitRateAmt> and the number of decimal positions shown in the static information. The rates are typically returned in the currency of the rental location. The currency code value is contained in the static information tag <Crncy>.

The response does not return both the native currency and a conversion to a local currency. However, a conversion rate can be obtained by calling the currency conversion transaction provided in *Appendix A: Currency Conversion*.

In addition to the vendor and rate information, several other items need to be saved to book a car. The following list includes all of the data required for booking:

- Start and end dates
- Start and end times
- Car type
- City code
- Car vendor code
- Location type and number
- Rate type and rate category
- Rate code
- Yield Management (if returned). Vendors use this value to manage inventory.
- RateDBKey. The database key for the rate.

Car Rental Rules

A traveller can review the rules for selections returned in the availability request before booking a car. All versions of the Car Rules request use the information from the preceding Availability response.

Car Rules Request

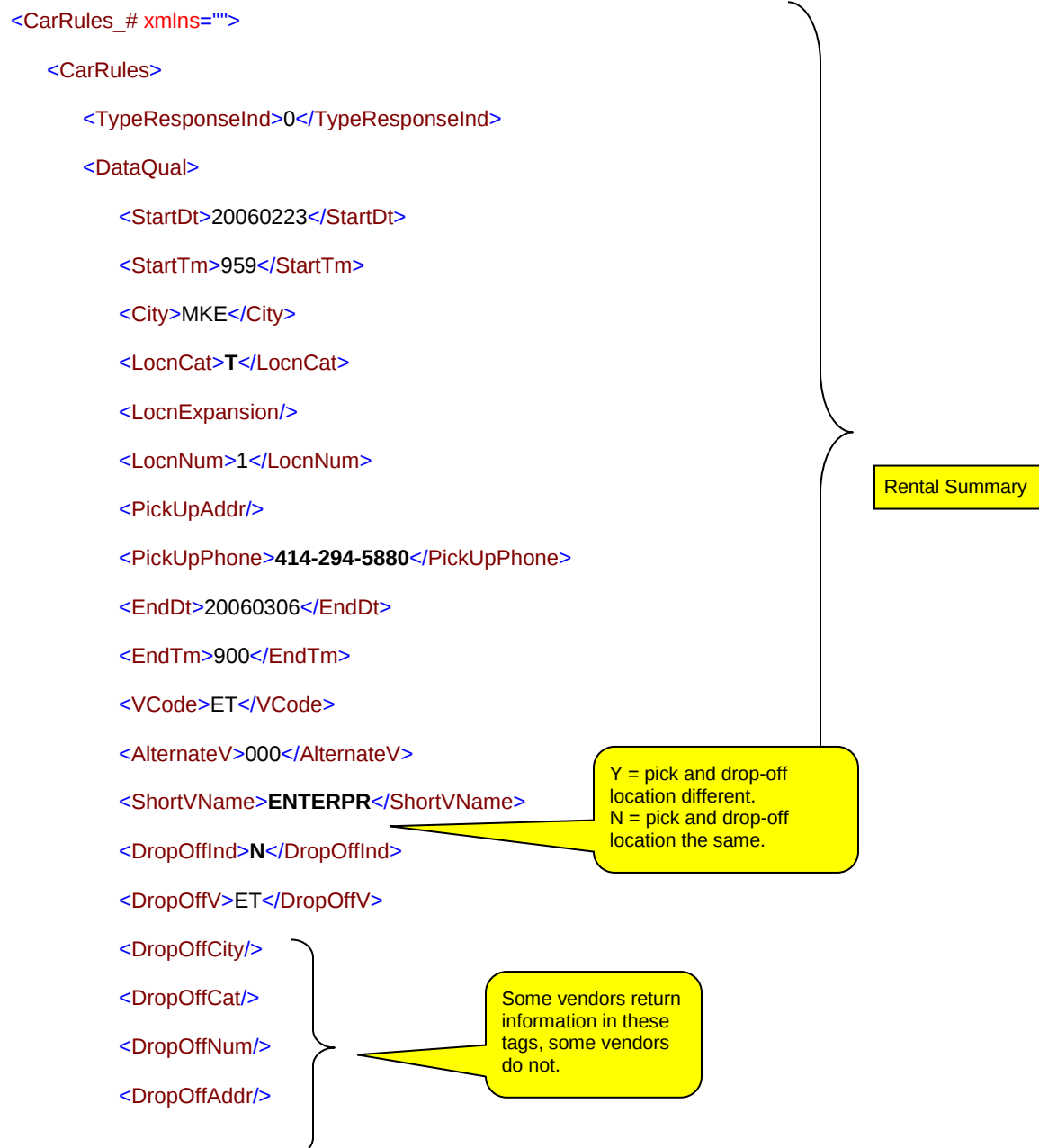
```
<CarRules_#>
  <CarRulesMods>
    <SegNum/>
    <StartDt>20060222</StartDt>
    <StartTm>0959</StartTm>
    <Pt>SFO</Pt>
    <LocnCat>T</LocnCat>
    <LocnNum>01</LocnNum>
    <EndDt>20060302</EndDt>
    <EndTm>0900</EndTm>
    <DropLocn/>
    <CarVendor>ZI</CarVendor>
    <CarType>ECAR</CarType>
    <YieldMgmtNum/>
    <RateType>W</RateType>
    <RateCat>S</RateCat>
    <RateCode>2K</RateCode>
    <Currency/>
    <ReferenceDBKey><![CDATA[X0000X0000]]></ReferenceDBKey>
    <ReturnRuleTextInd>Y</ReturnRuleTextInd>
  </CarRulesMods>
</CarRules_#>
```

Car Rules Response

All of the rental rules are returned in a single response. Although there is a great deal of information, it is organized and can be separated into these categories:

- General rules
- Credit cards
- Rate detail
- Taxes and surcharges
- Rental summary

These sections are annotated in the following example.



<DropOffPhone/>
 <DropOffHrs/>
 <DropChargeAmt>0000000000</DropChargeAmt>
 <DropChargeInd>Y</DropChargeInd>
 <RateCodeDesc/>
 <HrsOfOp>OPEN 06.00 AM - CLOSE 11.59 PM</HrsOfOp>
 <HoursPassFail/>
 <RateType>W</RateType>
 <RateCode>ETBEST</RateCode>
 <RateCat>S</RateCat>
 <CarType>ECAR</CarType>
 <CarTypeDesc>CHEV AVEO OR SIMILAR</CarTypeDesc>
 <YieldMgmtNum/>
 <DropInd/>

<Currency>USD</Currency>
 <NumDecs>2</NumDecs>
 <RateAmt>13695</RateAmt>
 <NumRateUnits><![CDATA[1]]></NumRateUnits>
 <NumExtraDays><![CDATA[4]]></NumExtraDays>
 <NumExtraHrs/>
 <BaseRate>24651</BaseRate>
 <MilesorKilometers>M</MilesorKilometers>
 <MileageAllowance>UNL</MileageAllowance>
 <MileageRateAmt>0</MileageRateAmt>
 <RequiredChgs/>
 <AdvBkUnit/>
 <NumAdvBkUnits/>
 <AdvBkPassFail/>
 <ExtraDayFlag>Y</ExtraDayFlag>
 <ExtraHourFlag>Y</ExtraHourFlag>
 <RuleInfoExists>Y</RuleInfoExists>

Weekly rate is 136.95

Rental is 1 week and 4 days.

Rental Summary

Rate Detail:	
Weekly rate of 136.95 USD for 1 week(s)	136.95
4 Extra day(s) at 27.39 USD per day	109.56
	246.51

<ExtraDayQual>

<RateAmt>2739</RateAmt>

Rate for each
extra day

<MileageAllowance>UNL</MileageAllowance>

<MileageRateAmt>0</MileageRateAmt>

</ExtraDayQual>

<ExtraHrQual>

<RateAmt>685</RateAmt>

<MileageAllow>UNL</MileageAllow>

<MileageRateAmt>0</MileageRateAmt>

</ExtraHrQual>

<RuleInfoQual>

<MinMaxUnit>D</MinMaxUnit>

<MinRentalUnits>005</MinRentalUnits>

<MinRentalPassFail/>

<MaxRentalUnits>007</MaxRentalUnits>

<MaxRentalPassFail/>

<AbsMaxDays/>

<AbsMaxPassFail/>

<EarlyStartTm/>

<EarlyStartPassFail/>

<LatestStartTm/>

<LatestStartPassFail/>

<LatestEndTm/>

<LatestEndPassFail/>

<DepAmt>0</DepAmt>

<DepInd/>

<DepDays>0</DepDays>

<DeptEffective/>

<DepDiscontinue/>

<DepDaysPassFail/>

<RateGuarEffective>20060216</RateGuarEffective>
 <RateGuarDiscontinue>20070215</RateGuarDiscontinue>
 <GuarRatePassFail/>
 <PaymentCreditCards>AXCACBDCDSVI</PaymentCreditCards>
 <MorePaymentCards>N</MorePaymentCards>
 <GuarCreditCards/>
 <MoreGuarCards>N</MoreGuarCards>
 </RuleInfoQual>
 <RuleAry>
 <RuleInfo>
 <DescInd>3</DescInd>
 <Text>GUARANTEE WITH RESERVATION</Text>
 </RuleInfo>
 <RuleInfo>
 <DescInd>4</DescInd>
 <Text>MILEAGE IS UNLIMITED WHEN VEHICLE REMAINS IN THE</Text>
 </RuleInfo>
 <RuleInfo>
 <DescInd>0</DescInd>
 <Text>RENTING STATE OR BORDERING STATES. IF TRAVELING OUTSIDE</Text>
 </RuleInfo>
 <RuleInfo>
 <DescInd>0</DescInd>
 <Text>OF THOSE STATES, MILEAGE IS CHARGED AT 150 FREE MILES</Text>
 </RuleInfo>
 <RuleInfo>
 <DescInd>0</DescInd>
 <Text>PER DAY AND .20 FOR EACH ADDITIONAL MILE, FOR THE</Text>
 </RuleInfo>
 <RuleInfo>
 <DescInd>0</DescInd>
 <Text>ENTIRE RENTAL.</Text>

Credit cards accepted:
AX, CA, CB, etc.

General Rules

```

    </RuleInfo>

  </RuleAry>

</DataQual>

</CarRules>

<CarVendorRules>
  <EstTotRate>000000031259</EstTotRate>
  <MarketingTxtAry>
    <Txt>THANK YOU FOR BOOKING ENTERPRISE CARMASTER INSIDE AVAILABILITY</Txt>
  </MarketingTxtAry>
  <InclusiveRateAry>
    <InclusiveRate>
      <Code>115</Code>
      <Text>115 UNKNOWN ITEM</Text>
    </InclusiveRate>
  </InclusiveRateAry>
  <CodedValueAry1>
    <CodedValueInfo>
      <CodedValue>200</CodedValue>
      <Label>TAX</Label>
      <Crncy>USD</Crncy>
      <Value>0000000826</Value>
      <TypeInd>R</TypeInd>
      <InclusionInd>T</InclusionInd>
    </CodedValueInfo>
    <CodedValueInfo>
      <CodedValue>200</CodedValue>
      <Label>TAX</Label>
      <Crncy>USD</Crncy>
      <Value>0000001542</Value>
      <TypeInd>R</TypeInd>
      <InclusionInd>T</InclusionInd>
    </CodedValueInfo>
  </CodedValueAry1>

```

Estimated total,
including taxes, etc. is
312.59

8.26 USD

N - No charge
P - Percentage
R - Per Rental
C - Per Contract
H - Per Hour
D - Per Day
W - Per Week
E -Weekend

T – Included in total rate
B – Included in base rate

This item can display as:
TAX 8.26 USD Per Rental –
included in total rate

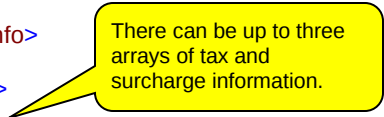
Taxes & Surcharges

```

</CodedValueAry1>
<CodedValueAry2>
  <CodedValueInfo>
    <CodedValue>400</CodedValue>
    <Label>SURCHARGE</Label>
    <Crncy>USD</Crncy>
    <Value>0000000100</Value>
    <TypeInd>R</TypeInd>
    <InclusionInd>T</InclusionInd>
    <TaxableInd/>
  </CodedValueInfo>
  <CodedValueInfo>
    <CodedValue>400</CodedValue>
    <Label>SURCHARGE</Label>
    <Crncy>USD</Crncy>
    <Value>0000002467</Value>
    <TypeInd>R</TypeInd>
    <InclusionInd>T</InclusionInd>
    <TaxableInd/>
  </CodedValueInfo>
  <CodedValueInfo>
    <CodedValue>400</CodedValue>
    <Label>SURCHARGE</Label>
    <Crncy>USD</Crncy>
    <Value>0000001376</Value>
    <TypeInd>R</TypeInd>
    <InclusionInd>T</InclusionInd>
    <TaxableInd/>
  </CodedValueInfo>
  <CodedValueInfo>
    <CodedValue>400</CodedValue>
    <Label>DELIVERY COLLECTION</Label>

```

```
<Crncy>USD</Crncy>
<Value>0000000000</Value>
<TypeInd>R</TypeInd>
<InclusionInd>T</InclusionInd>
<TaxableInd/>
</CodedValueInfo>
</CodedValueAry2>
<CodedValueAry3/>
</CarVendorRules>
</CarRules_#>
```



Car Descriptions

Car Descriptions use keyword information to detail a car vendor's business policies and services. Descriptions include age requirements, vehicle types, and refueling and credit card policies. The list of keywords changes frequently, and is different for each vendor.

To retrieve a current keyword list, use the <WantKeywordList> element in <CarDescMods>, as shown in the following Car Description Request example. This example requests the keyword list as well as information for the keyword, CARS. Although some keywords are almost always present, such as CARS, obtain a keyword list before requesting keyword information.

Car Description Request

<CarDescription_#>

<CarDescMods>

<StartDt>20060223</StartDt>

<City>MKE</City>

<LocnCat>T</LocnCat>

<LocnNum>01</LocnNum>

<CarSupplier>ET</CarSupplier>

<KeywordAry>

<Keyword>CARS</Keyword>

</KeywordAry>

<SubKey/>

<WantKeywordList>Y</WantKeywordList>

<MoreInd>N</MoreInd>

</CarDescMods>

</CarDescription_#>

One to three keywords
can be in the array.

Enter Y to get the
keyword list.

Car Description Response

The description response is quite large, especially when keywords are requested. The response follows this order:

1. Vendor location information.
2. The keyword list (if requested)
3. Data for each requested keyword.

Multiple <CarDescKeyword> elements can be returned. The total number of keywords entries in all of the elements equals the value in <TotCnt>. The information for each keyword is contained within a <TextInfo> element. Portions of the response have been removed for brevity.

Vendors may not support all keywords, and you may choose not to support all keywords in your application. Additionally, vendors may use different keywords to provide descriptions of the same item. When testing, be sure to check with your vendors to determine how they handle the data.

```
<CarDescription_# xmlns="">
```

```
<CarDesc>
```

```
<BlkInd>0</BlkInd>
```

```
<DataQual>
```

```
<KeywordStatus1>Y</KeywordStatus1>
```

```
<KeywordStatus2 />
```

```
<KeywordStatus3 />
```

```
<TextLineCnt>59</TextLineCnt>
```

```
<LocGenericSecInd>Y</LocGenericSecInd>
```

```
<MoreInd>N</MoreInd>
```

```
<NumLastKeyword>0</NumLastKeyword>
```

```
<StartDBKey>619914593</StartDBKey>
```

```
<EndDBKey>6553565535</EndDBKey>
```

```
<LastAccessedLine>0</LastAccessedLine>
```

Location Information

```
<CityLocnQual>
```

```
<CityName>GENERAL MITCHELL INTL ARPT</CityName>
```

```
<LocnName>TERMINAL</LocnName>
```

```
<LocnExpansion />
```

```
<LocnNum>01</LocnNum>
```

```
<FranchiseInd>N</FranchiseInd>
```

```
<LocnAddr>MILWAUKEE A/P IN-TEMINAL</LocnAddr>
```

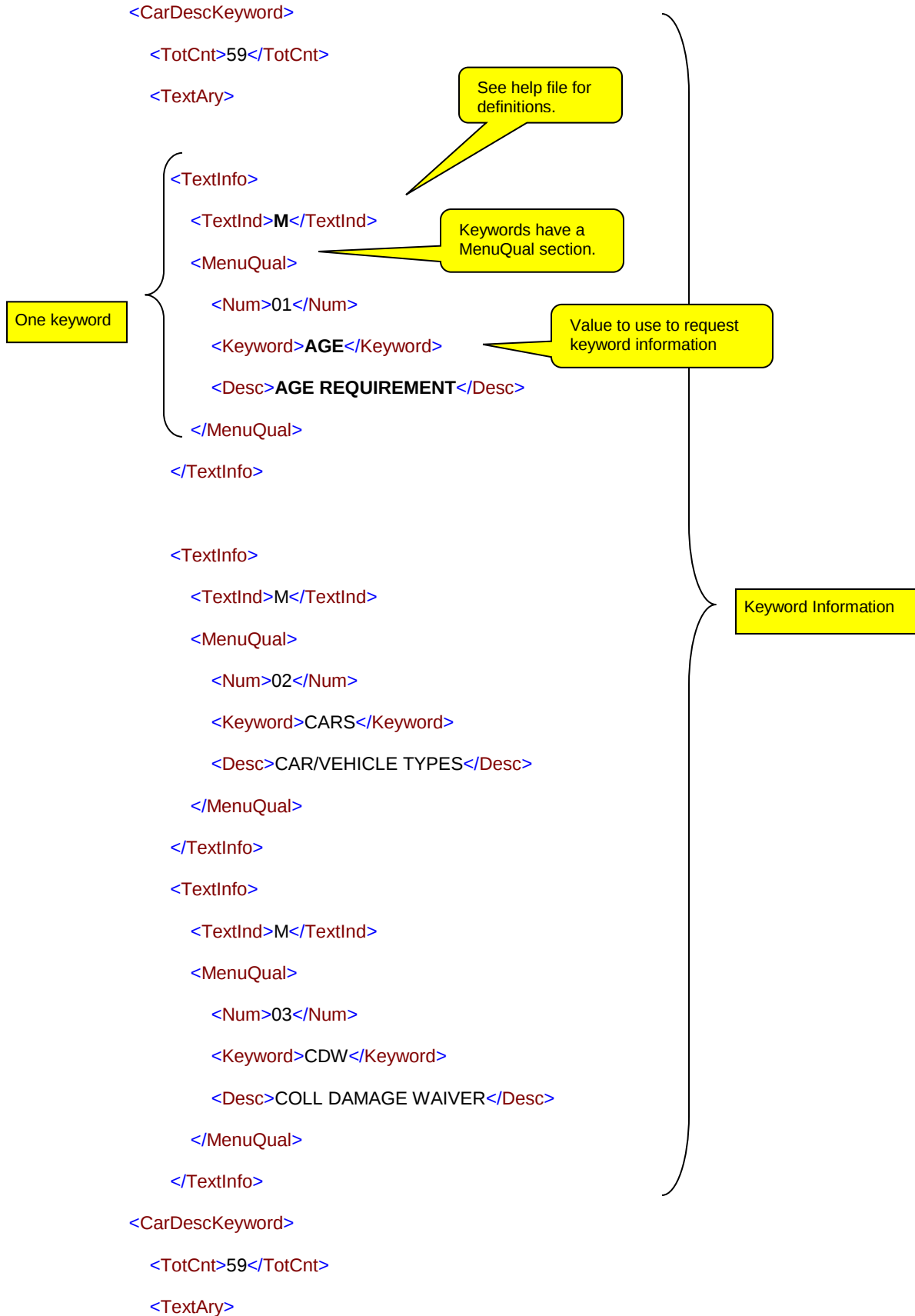
```
<PhoneNum>414-294-5880</PhoneNum>
```

```
<BusinessHrs>M-F 6AM-11:59P, SAT 8AM-10:30P, SUN 8AM-11:59PM</BusinessHrs>
```

```
</CityLocnQual>
```

```
</DataQual>
```

```
</CarDesc>
```



```
<TextInfo>
  <TextInd>M</TextInd>
  <MenuQual>
    <Num>19</Num>
    <Keyword>MISC</Keyword>
    <Desc>MISCELLANEOUS INFO</Desc>
  </MenuQual>
```

```
</TextInfo>
```

```
<TextInfo>
  <TextInd>M</TextInd>
  <MenuQual>
    <Num>21</Num>
    <Keyword>PYMNT</Keyword>
    <Desc>PAYMENT ACCEPTED</Desc>
  </MenuQual>
```

```
</TextInfo>
```

• • •

```
<CarDescKeyword>
```

```
<TotCnt>59</TotCnt>
```

```
<TextAry>
```

```
<TextInfo>
  <TextInd>M</TextInd>
  <MenuQual>
    <Num>56</Num>
    <Keyword>ARRV</Keyword>
    <Desc>ARRIVAL INFO</Desc>
  </MenuQual>
```

```
</TextInfo>
```

```
<TextInfo>
  <TextInd>M</TextInd>
  <MenuQual>
    <Num>80</Num>
```

```

    <Keyword>ASSOC</Keyword>

    <Desc>ASSOCIATION INFO</Desc>

  </MenuQual>
</TextInfo>
<TextInfo>
  <TextInd>K</TextInd>
  <KeywordQual>
    <KeywordName>CARS</KeywordName>
    <Keyword>CAR/VEHICLE TYPES</Keyword>
    <KeywordNum>02</KeywordNum>
    <Rsvd />
  </KeywordQual>
</TextInfo>
<TextInfo>
  <TextInd>0</TextInd>
  <FormattedQual>
    <CarType>MVAR</CarType>
    <Class />
    <Blank1 />
    <MakeModel>CHEVY UPLANDER</MakeModel>
    <Blank2 />
    <DoorCnt>3-4</DoorCnt>
    <Blank3 />
    <PsgrCnt><![CDATA[ 7]]></PsgrCnt>
    <Blank4 />
    <BagCnt />
    <Blank5 />
  </FormattedQual>
</TextInfo>
<TextInfo>
  <TextInd>0</TextInd>
  <FormattedQual>

```

End of Keyword List

Beginning of Specific
Keyword Information

Specific keywords have
a KeywordQual section.

```

    <CarType>ECAR</CarType>

    <Class />

    <Blank1 />

    <MakeModel>CHEVY AVEO</MakeModel>

    <Blank2 />

    <DoorCnt><![CDATA[ 2]]></DoorCnt>

    <Blank3 />

    <PsgrCnt><![CDATA[ 4]]></PsgrCnt>

    <Blank4 />

    <BagCnt />

    <Blank5 />

  </FormattedQual>
</TextInfo>
<TextInfo>
  <TextInd>0</TextInd>
  <FormattedQual>
    <CarType>CCAR</CarType>

    <Class />

    <Blank1 />

    <MakeModel>DODGE NEON/KIA RIO</MakeModel>

    <Blank2 />

    <DoorCnt><![CDATA[ 2]]></DoorCnt>

    <Blank3 />

    <PsgrCnt><![CDATA[ 5]]></PsgrCnt>

    <Blank4 />

    <BagCnt />

    <Blank5 />

  </FormattedQual>
</TextInfo>
  . . .

</CarDescKeyword>
</CarDescription_#>

```

Booking a Car

After a car is selected, and all of the pertinent information collected, the car can be booked as part of the entire itinerary. All travel segments must be booked in chronological order. For a round trip with both air and car, the correct order is:

1. Outbound flight.
2. Car.
3. Return flight.

The car booking request is included in the PNRBFManagement_# request, which books the entire itinerary. The following example shows the Car Booking request, as well as the Car Availability response on which the booking is based.

Car Booking Request

The following table shows an availability response and the subsequent booking request. When booking a non-airport location, specify the pick up location in the <OptFldIDAr> by setting the <ID> element to PU. The <Contents> element (when following an <ID> element set to PU) is the airport or city code, followed by the one-letter location category code, followed by the two-digit location number. In the following example, the city code is LON, the location category is city, and the location number is 60. Therefore, the <Contents> value is LONC60.

Note: In some markets, car vendors may require the air vendor code (<StartAirV> element) and flight number (<StartFltNum>element) for a successful sell. For example, in markets such as New York and Florida, insurance for local renters is extremely expensive. Certain rates require this information to ensure that the renter is not a local.

Availability Response	Booking Request
<pre><CarMatrixRateInfo> <RateKey>3</RateKey> <CarType>MCMN</CarType> <YieldMgmtNum>A</YieldMgmtNum> <RateCatInd>P</RateCatInd> <Rate>BUR1GB</Rate> <RateDBKey>824903049</RateDBKey> <RateType>D</RateType> <UnitRateAmt>2416</UnitRateAmt> <ApproxTotRateAmt>5561</ApproxTotRateAmt> <ApproxTotRateInd>T</ApproxTotRateInd> <MileRateAmt>0</MileRateAmt> <MileAllow>UNL</MileAllow> <FullyQualRateInd>Y</FullyQualRateInd> <DropChargeInd/></pre>	<pre><CarSegSellMods> <CarV>ZE</CarV> <CarType>MCMN</CarType> <StartDt>20091118</StartDt> <StartTm>1400</StartTm> <StartAirV/> <StartFltNum/> <Airp>LON</Airp> <LocnCat>C</LocnCat> <LocnNum>60</LocnNum> <EndDt>20091119</EndDt> <EndTm>1400</EndTm> <EndAirV/> <EndFltNum/> <DropLocn/></pre>

<RateGuarInd>G</RateGuarInd> <AvailInd>S</AvailInd> <PrePayInd/> </CarMatrixRateInfo>	<YieldMgmtNum>A</YieldMgmtNum> <RateType>D</RateType> <RateCat>P</RateCat> <Rate>BUR1GB</Rate> <Currency>GBP</Currency> <RefDBKey>824903049</RefDBKey> <PrevRefAvail>L</PrevRefAvail> <RateSource>I</RateSource> <NumCars>1</NumCars> <RetRuleTxtInd>Y</RetRuleTxtInd> <OptFldIDary> <OptFldID> <ID>PU</ID> <Contents>LONC60</ Contents > </OptFldID> </OptFldIDary> </CarSegSellMods>
--	--

Car Booking Response

The correct booking response within the overall PNRBFManagement_# response for the Car Booking Request in the preceding topic is:

```

<CarSegSell>
  <Type>L</Type>
  <RuleLineCnt>0</RuleLineCnt>
  <Type0WLQual>
    <SegNum>1</SegNum>
    <SellStatus>S</SellStatus>
    <StartDt>20091118</StartDt>
    <StartTm>1400</StartTm>
    <StartAirV/>
    <StartFltNum/>
    <Airp>LON</Airp>
    <PickupLocn>LON</PickupLocn>
    <LocnCat>C</LocnCat>
  
```

<LocnExpansion/>
<LocnNum>60</LocnNum>
<PickUpAddr/>
<PickUpPhone/>
<EndDt>20091119</EndDt>
<EndTm>1400</EndTm>
<EndAirV/>
<EndFltNum/>
<NumCars>1</NumCars>
<Vnd>ZE</Vnd>
<AltV/>
<ShortVName/>
<ConfNum>E3141056352</ConfNum>
<RateCodeDesc/>
<HrsOp/>
<HrsPassFailInd/>
<RateType>D</RateType>
<Rate>BUR1GB</Rate>
<RateCat/>
<CarType>MCMN</CarType>
<CarTypeDesc/>
<YieldMgmtNum/>
<Currency>GBP</Currency>
<DecPos>2</DecPos>
<RateAmt>2416</RateAmt>
<NumRateUnits/>
<NumExtraDays/>
<NumExtraHrs/>
<BaseRate>0</BaseRate>
<RateGuarInd>G</RateGuarInd>
<MilesOrKiloInd>M</MilesOrKiloInd>
<MileAllow><![CDATA[UNL]]></MileAllow>

<MileRateAmt>0</MileRateAmt>
 <RequiredChgs/>
 <AdvBkUnitInd/>
 <NumAdvBkUnits>0</NumAdvBkUnits>
 <AdvBkPassFailInd/>
 <ApproxTot>0000055.61</ApproxTot>
 <ExtraMileRate>0</ExtraMileRate>
 <ATMilesOrKiloInd>M</ATMilesOrKiloInd>
 <ATMileAllow><![CDATA[UNL]]></ATMileAllow>
 <ATMonthUnits>0</ATMonthUnits>
 <ATWeeklyUnits>0</ATWeeklyUnits>
 <ATWeekendUnits>0</ATWeekendUnits>
 <ATDailyUnits>1</ATDailyUnits>
 <ATEXtraHrs>0</ATEXtraHrs>
 <ATMandatoryChgs>000031.45</ATMandatoryChgs>
 <ExtraDayInd>N</ExtraDayInd>
 <ExtraHourInd>Y</ExtraHourInd>
 <RuleInfoExistsInd>N</RuleInfoExistsInd>
 <ExtraHrsYQual>
 <RateAmt>2950</RateAmt>
 <MileAllow/>
 <MileRateAmt>0</MileRateAmt>
 </ExtraHrsYQual>
 <OptFldIDary>
 <OptFldID>
 <ID>BS</ID>
 <Contents>92000101</Contents>
 </OptFldID>
 <OptFldID>
 <ID>PU</ID>
 <Contents>LONC60</Contents>
 </OptFldID>

```

    <OptFldID>
      <ID>RG</ID>
      <Contents>GBP24.16DY-UNL MI XH 29.50</Contents>
    </OptFldID>
    <OptFldID>
      <ID>NL</ID>
      <Contents>JACK</Contents>
    </OptFldID>
    <OptFldID>
      <ID>NF</ID>
      <Contents>TEST</Contents>
    </OptFldID>
    <OptFldID>
      <ID>AT</ID>
      <Contents>GBP55.61-UNL FM 1DY 0HR 31.45MC</Contents>
    </OptFldID>
  </OptFldIDary>
</Type0WLQual>
</CarSegSell>
<CarSegSellText>
  <TotLineDescCnt>6</TotLineDescCnt>
  <LineDescAry>
    <LineDescInfo>
      <LineDesc>4</LineDesc>
      <Txt/>
    </LineDescInfo>
    <LineDescInfo>
      <LineDesc>0</LineDesc>
      <Txt>APPROX TTL INC CDW-TP-TAX-LOC SVC CHG-VLCR </Txt>
    </LineDescInfo>
    <LineDescInfo>
      <LineDesc>0</LineDesc>

```

<Txt>PHOTOCARD LICENSES-PAPER COUNTER PART REQUIRED</Txt>
</LineDescInfo>
<LineDescInfo>
 <LineDesc>0</LineDesc>
 <Txt>EXTRA DAY CHARGES APPLY AFTER 2300 SATURDAY</Txt>
</LineDescInfo>
<LineDescInfo>
 <LineDesc>0</LineDesc>
 <Txt>AGE RESTRICTIONS MAY APPLY CHECK POLICY</Txt>
</LineDescInfo>
<LineDescInfo>
 <LineDesc>0</LineDesc>
 <Txt>NEW UK CHILD SEAT LAW. PLEASE CHECK YOUVE BOOKED ENOUGH SEATS *</Txt>
</LineDescInfo>
</LineDescAry>
</CarSegSellText>

Appendix A: Currency Conversion

There are two transactions you can use to perform a currency conversion:

- CurrencyConversion_#
- FareQuoteMultiDisplay_#

The CurrencyConversion_# transaction uses ACC tables which are updated weekly. However, it returns conversion indicators that can be used to calculate a conversion factor.

The FareQuoteMultiDisplay_# transaction returns a text response that needs to be parsed. However, it uses a table that is updated daily.

Currency Conversion Using the CurrencyConversion_# Transaction

A conversion rate for two currencies can be obtained using the CurrencyConversion_# request:

```
<CurrencyConversion_#  
  <CurrencyConversionMods>  
    <CurrencyAry>  
      <Currency>  
        <Currency1>GBP</Currency1>  
        <Currency2>USD</Currency2>  
      </Currency>  
    </CurrencyAry>  
  </CurrencyConversionMods>  
</CurrencyConversion_#>
```

To obtain a conversion factor such that currency 2 = currency 1 * factor from the response:

```
<CurrencyConversion_# xmlns="">  
  <CurrencyConversion>  
    <Type>C</Type>  
    <TypeConvQual>  
      <PairStatusAry>  
        <PairStatus>  
          <PairStatusInd>0</PairStatusInd>  
          <Currency1>GBP</Currency1>  
          <DecPos1>2</DecPos1>
```

Value 1

Conversion factor:
If M, factor = Value 1 * Value 2
If D, factor = Value 2 / Value 1

Value 2

```

<ConvInd1>574</ConvInd1>
<RndInd1>1000</RndInd1>
<Calc1TypeInd>D</Calc1TypeInd>
<Currency2>USD</Currency2>
<DecPos2>2</DecPos2>
<ConvInd2>1000</ConvInd2>
<RndInd2>0</RndInd2>
<Calc2TypeInd>M</Calc2TypeInd>
<Currency3/>
<DecPos3/>
<RndInd3/>
</PairStatus>
</PairStatusAry>
</TypeConvQual>
</CurrencyConversion>
</CurrencyConversion_#>

```

In the preceding code, the conversion factor is $1000/574 = 1.7422$. currency 2 = currency 1 * factor. To convert GBP to USD:

currency 2 = currency 1 * factor

USD = GBP * 1.7422

Therefore, 1 GBP = \$1.74 USD.

Currency Conversion Using the FareQuoteMultiDisplay_# Transaction

A conversion rate for two currencies can be obtained using the FareQuoteMultiDisplay_# request:

```

<FareQuoteMultiDisplay_#>
  <FareDisplayMods>
    <QueryHeader>
      <UniqueKey>0000</UniqueKey>
      <LangNum>00</LangNum>
      <Action>25</Action>
      <RetCRTOutput>Y</RetCRTOutput>
      <NoMsg>N</NoMsg>
      <NoTrunc>N</NoTrunc>
      <IMInd>N</IMInd>
      <FIPlus>N</FIPlus>
    
```

```

<PEInd>N</PEInd>
<HostUse16 />
<NBInd>N</NBInd>
<ActionOnlyInd>N</ActionOnlyInd>
<TranslatePeriod>N</TranslatePeriod>
<GFYInd>N</GFYInd>
<IntFrame1>N</IntFrame1>
<SmartParsed>N</SmartParsed>
<PDCodes>N</PDCodes>
<BkDtOverride>N</BkDtOverride>
<HostUse25>N</HostUse25>
<DefCurrency>N</DefCurrency>
<PFPWInd>N</PFPWInd>
<HostUse28>N</HostUse28>
<HostUse29>N</HostUse29>
<HostUse30>N</HostUse30>
<HostUse31>N</HostUse31>
<DefCurrencyLocInd>N</DefCurrencyLocInd>
<HostUse33>N</HostUse33>
<CurrencyQual>
  <CalcFZINUCInd>N</CalcFZINUCInd>
  <Spare6>NNNN</Spare6>
  <TableDisplInd>Y</TableDisplInd>
  <Spare7>NN</Spare7>
  <Spare8>NNNNNNNN</Spare8>
</CurrencyQual>
</QueryHeader>
<CurrencyConversion>
  <UniqueKey>0000</UniqueKey>
  <LineNum>000</LineNum>
  <CountryRateTables>N</CountryRateTables>
  <AgainstCRTLocation>N</AgainstCRTLocation>
  <CityCurrency>N</CityCurrency>
  <RateBetweenToFrom>N</RateBetweenToFrom>
  <IATAFZC>N</IATAFZC>
  <IATAFZI>N</IATAFZI>
  <UseIATARates>N</UseIATARates>
  <Spare>N</Spare>
  <SellersTableFZS>N</SellersTableFZS>
  <FZNoRounding>N</FZNoRounding>
  <MultFactorPresent>N</MultFactorPresent>
  <DivFactorPresent>N</DivFactorPresent>
  <FZAllEntry>N</FZAllEntry>
  <FZBuyersTable>N</FZBuyersTable>
  <FZAuditTrail>N</FZAuditTrail>
  <RateBetweenCurrencies>N</RateBetweenCurrencies>
  <Country />
  <FromCurrency>GBP</FromCurrency>

```

```

    <ToCurrency>USD</ToCurrency>
    <CRTCurrency />
    <Amt>1.00</Amt>
    <City>N</City>
    <SpecBankRate>
        <![CDATA[           ]]>
    </SpecBankRate>
    <DispDt>
        <![CDATA[           ]]>
    </DispDt>
    <AuditTrailDispDt>
        <![CDATA[           ]]>
    </AuditTrailDispDt>
</CurrencyConversion>
</FareDisplayMods>
</FareQuoteMultiDisplay_#>

```

The response provides the currency conversion:

```

<FareQuoteMultiDisplay_#>
  <FareInfo>
    <OutputMsg>
      <Text>
        <![CDATA[
          RATES LAST UPDATED 11JUL 00:52 AM
          EQU USD2.00      GBP 0.503812  LCL CURRENCY DIVIDED BY ROE
          USD      1  NUC RATE MULTIPLIED BY ROE
        ]]>
      </Text>
    </OutputMsg>
    <RespHeader>
      <UniqueKey>0000</UniqueKey>
      <CRTOutput>Y</CRTOutput>
      <ErrMsg>N</ErrMsg>
      <AgntAlert>N</AgntAlert>
      <SmartParsedData>N</SmartParsedData>
      <NextGenInd>Y</NextGenInd>
      <Spares1>NNN</Spares1>
      <FQSOonlyItin>N</FQSOonlyItin>
      <HostUse14>N</HostUse14>
      <IFQLastF0>N</IFQLastF0>
      <IFQLastFQ>N</IFQLastFQ>
      <IFQLastD>N</IFQLastD>
      <IFQLastB>N</IFQLastB>
      <IFQLastV>N</IFQLastV>
      <HostUse20>N</HostUse20>
      <AppInd1>N</AppInd1>
      <AppInd2>N</AppInd2>
      <AppInd3>N</AppInd3>
      <AppInd4>N</AppInd4>
    </RespHeader>
  </FareInfo>
</FareQuoteMultiDisplay_#>

```

```
<AppInd5>N</AppInd5>
<AppInd6>N</AppInd6>
<AppInd7>N</AppInd7>
<AppInd8>N</AppInd8>
<AppInd9>N</AppInd9>
<AppInd10>N</AppInd10>
<AppInd11>N</AppInd11>
<AppInd12>N</AppInd12>
<AppInd13>N</AppInd13>
<AppInd14>N</AppInd14>
<AppInd15>N</AppInd15>
<AppInd16>N</AppInd16>
</RespHeader>
</FareInfo>
</FareQuoteMultiDisplay_#>
```

In the preceding code, the conversion is \$2.00 USD = 0.503812 GBP.