

RateMate Integration Service Guide v.13.0.2



What is RateMate®

RateMate® is a real time spot market freight index and rate trending service offered only on Internet Truckstop's load board.

RateMate®:

- Access to posted, paid and submitted rates by equipment type.
- Month over month rate trends.
- Rate levels for last week, last month, last quarter and last year.
- Calculate appropriate fuel surcharges.
- Access current fuel costs per mile for any route.
- See current market demands for trucks within 100 miles of any city.

Shipper Rates - NEW FEATURE

• Access to real time and historical paid shipper rates.

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RateMate Webservice

RateMate Webservice URL

Production

http://webservices.truckstop.com/v13/RateMate/RateMate.svc?wsdl

Test

http://testws.truckstop.com:8080/v13/RateMate/RateMate.svc?wsdl

GetHistoricalRates

Returns historic rate data for a given lane and rate criteria.

Request

RateSearchRequest

- LaneSearchCriteria Criteria
- RateSearchCriteria RateCriteria

Criteria:	The criteria for the lane you want to search with.
RateCriteria:	The criteria for the rate information.

Return

HistoricalRatesReturn

IList<HistoricalRate> History

History: A list of historic rates for the given lane and rate criteria.

```
RateMateClient client = new RateMateClient();

LaneSearchCriteria lane = new LaneSearchCriteria()
{
    Origin = new Place() {City = "Los Angeles", State = "CA", Country = "USA"},
    Destination = new Place() {City = "Houston", State = "TX", Country = "USA"},
    EquipmentCategory = EquipmentCategory.Flat
    };

RateSearchRequest request = new RateSearchRequest();
    request.IntegrationId = xxxxxx;
    request.UserName = "xxxxxxxxxxx";
    request.Password = "xxxxxxxxxx";
    request.Password = "xxxxxxxxxx";

request.RateCriteria = lane;
    request.RateCriteria = new RateSearchCriteria()
    {
        DesiredMargin = 20,
            Radius = Radius.Within100Miles
        };

    Console.WriteLine("Getting historical rates");
    HistoricalRatesReturn ratesReturn = client.GetHistoricalRates(request);

if (ratesReturn.Errors.Length > 0)
```

GetNegotiationStrength

Returns broker negotiation strength information for a given lane.

Request

NegotiationStrengthRequest

LaneSearchCriteria Criteria

Criteria: The criteria for the lane you want to search with.

Return

NegotiationStrengthReturn

- **OriginDestinationPair<string>** NegotiationStrength
- OriginDestinationPair<int> LoadsPickingUp
- OriginDestinationPair<int> LoadsDroppingOff
- OriginDestinationPair<int> TrucksAvailable
- OriginDestinationPair<int> LookingForLoads

NegotiationStrength:	Broker negotiation strength at the origin and destination.
LoadsPickingUp:	The number of loads being picked up at the origin and the destination.
LoadsDroppingOff:	The number of loads being dropped off at the origin and destination.
TrucksAvailable:	The number of trucks available at the origin and destination.
LookingForLoads:	The number of trucks looking for loads at the origin and destination.

```
RateMateClient client = new RateMateClient();
LaneSearchCriteria lane = new LaneSearchCriteria()
          Origin = new Place() {City = "Los Angeles", State = "CA", Country = "USA"}, Destination = new Place() {City = "Houston", State = "TX", Country = "USA"}, EquipmentCategory = EquipmentCategory.Flat
Console.WriteLine("Getting negotiation strength");
NegotiationStrengthRequest negotiationStrengthRequest = new NegotiationStrengthRequest();
negotiationStrengthRequest.IntegrationId = xxxxx;
negotiationStrengthRequest.UserName = "xxxxxxxxxx";
negotiationStrengthRequest.Password = "xxxxxxxxxx";
negotiationStrengthRequest.Criteria = lane;
NegotiationStrengthReturn negotiationStrengthReturn = client.GetNegotiationStrength(negotiationStrengthRequest);
if (negotiationStrengthReturn.Errors.Length > 0)
     Console.WriteLine("Errors:");
foreach (Error error in negotiationStrengthReturn.Errors)
          Console.WriteLine(error.ErrorMessage);
}
else
                                                                 |\{0,12\}|\{1,12\}| ", lane.Origin.City, lane.Destination.City); |\{0,12\}|\{1,12\}| ",
     Console.WriteLine("
lane.Origin.State,
     Console.WriteLine("
                            lane.Destination.State);
     Console.WriteLine(" lane.Origin.Country,
                                                                 |{0,12}|{1,12}|",
                           lane.Destination.Country);
     Console.WriteLine(
     Console.WriteLine("Loads picking up ......
                                                                  [{0,12}]{1,12}]"
                            negotiationStrengthReturn.LoadsPickingUp.Origin
```

GetFuelSurcharge

Returns fuel surcharge information for a given lane.

Request

FuelSurchargeRequest

- LaneSearchCriteria Criteria
- Decimal MilesPerGallon

Criteria:	The criteria for the lane you want to search with.
MilesPerGallon:	In miles per gallon, the truck's fuel efficiency.

Return

FuelSurchargeReturn

- Decimal SurchargeTotal
- **Decimal** SurchargePerMile
- **Decimal** FuelPricePerGallon
- **Decimal** BaseLineFuelPrice
- **Decimal** TotalMiles
- **Decimal** EstimatedFuelCost
- **Decimal** EstimatedFuelCostPerMile
- **Decimal** MilesPerGallon

SurchargeTotal:	In dollars, the total fuel surcharge for the trip.
	SurchargePerMile*TotalMiles
SurchargePerMile:	In dollars per mile, the fuel surcharge per mile driven.
	(FuelPricePerGallon-BaseLineFuelPrice)/MilesPerGallon
FuelPricePerGallon:	In dollars per gallon, the average price of purchasing fuel on the route.
BaseLineFuelPrice:	In dollars per gallon, the base fuel price used to calculate the fuel
	surcharge.
TotalMiles:	In miles, the length of the route.
EstimatedFuelCost:	In dollars, the total fuel cost for driving the route
	EstimatedFuelCostPerMile*TotalMiles
EstimatedFuelCostPerMile:	In dollars per mile, the cost for fuel purchased along the route
	FuelPricePerGallon/MilesPerGallon
MilesPerGallon:	In miles per gallon, the requested truck's fuel efficiency.

```
RateMateClient client = new RateMateClient();

LaneSearchCriteria lane = new LaneSearchCriteria()
{
    Origin = new Place() {City = "Los Angeles", State = "CA", Country = "USA"},
    Destination = new Place() {City = "Houston", State = "TX", Country = "USA"},
    EquipmentCategory = EquipmentCategory.Flat
    };

Console.WriteLine("Getting fuel surcharge");

FuelSurchargeRequest fuelSurchargeRequest = new FuelSurchargeRequest();
```

GetRateIndex

Returns rate information.

Request

RateSearchRequest

- LaneSearchCriteria Criteria
- RateSearchCriteria RateCriteria

Criteria:	The criteria for the lane you want to search with.
RateCriteria:	The criteria for the rate information.

Return

RateIndexReturn

- RateIndexResult Posted
- RateIndexResult Paid
- RateIndexResult PaidShipper

Posted:	The posted rate average information.
Paid:	The paid rate average information.
PaidShipper:	The paid shipper rate information. This is only available if the user is subscribed
	to Paid Shipper Rates.

```
RateMateClient client = new RateMateClient();
LaneSearchCriteria lane = new LaneSearchCriteria()
      {
            Origin = new Place() {City = "Los Angeles", State = "CA", Country = "USA"},
Destination = new Place() {City = "Houston", State = "TX", Country = "USA"},
EquipmentCategory = EquipmentCategory.Flat
RateSearchRequest request = new RateSearchRequest();
request.IntegrationId = xxxxx;
request.UserName = "xxxxxxxxx";
request.Password = "xxxxxxxxxx";
request.Criteria = lane;
request.RateCriteria = new RateSearchCriteria()
      {
            DesiredMargin = 20,
Radius = Radius.Within100Miles
Console.WriteLine("Getting rate index");
RateIndexReturn rateIndexReturn = client.GetRateIndex(request);
if (rateIndexReturn.Errors.Length > 0)
      Console.WriteLine("Errors:");
foreach (Error error in rateIndexReturn.Errors)
             Console.WriteLine(error.ErrorMessage);
else
                                            |Days| Number| Avg.| Avgerage Rate|Calculated Average|Calculated Average");
| of |Miles| to Trucker | Rate to Shipper | Broker's Margin ");
| Reports| |Total|per Mile| per Mile | (percent) ");
      Console.WriteLine("
      Console.WriteLine("
Console.WriteLine("
      Console.WriteLine("Posted |---|----|----|-----|);
foreach (Rate rate in rateIndexReturn.Posted.Rates)
                                         (" |\{0,4\}|\{1,7\}|\{2,5\}|\{3,5:0\}|\{4,8:0.00\}|\{5,18:0.00\}|\{6,18:0\}", rate.Days, rate.NumberOfReports, rate.AverageMiles, rate.AverageTotalRate,
            Console.WriteLine("
```

Objects

HistoricalRate

- Int Month
- Int Year
- Int AverageMiles
- **Double** AverageTotalRate
- **Double** DesiredMargin
- **Double** AverageRateToTrucker
- **Double** AverageRateToShipper

Month:	The month the information was accurate.
Year:	The year the information was accurate.
AverageMiles:	In miles, the average distance between driven for rates during this period
AverageTotalRate:	In dollars, the average total amount paid to or desired by the trucker
DesiredMargin:	In percent, your desired broker margin
AverageRateToTrucker:	In dollars per mile, the average amount paid to or desired by the trucker
AverageRateToShipper:	In dollars per mile, your desired rate based on the rate to trucker and your
	desired margin

LaneSearchCriteria

- Place Origin
- Place Destination
- EquipmentCategory EquipmentCategory

Origin:	The starting location of the lane.
Destination:	The ending location of the lane.
EquipmentCategory:	The equipment type to be used in the search.

OriginDestinationPair<T>

- **T** Origin
- T Destination

Origin:	Origin: Information at the origin of a lane.	
Destination:	Information at the destination of a lane.	

Place

- String City
- String State
- String Country

City: The location's city.	
State:	The location's state.
Country:	The location's country.

Rate

- Int Days
- Int NumberOfReports
- Int AverageMiles
- Double AverageTotalRate
- **Double** DesiredMargin
- **Double** AverageRateToTrucker
- Double AverageRateToShipper

Days:	This record summarizes data from this many days before today
NumberOfReports:	The number of rates reported for this period
AverageMiles:	In miles, the average distance between driven for rates during this period
AverageTotalRate:	In dollars, the average total amount paid to or desired by the trucker
DesiredMargin:	In percent, your desired broker margin
AverageRateToTrucker:	In dollars per mile, the average amount paid to or desired by the trucker
AverageRateToShipper:	In dollars per mile, your desired rate based on the rate to trucker and your
	desired margin

RateIndexResult

• IList<Rate> Rates

Rates: A list of rates.	
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RateSearchCriteria

- Radius Radius
- **Double** DesiredMargin

Radius:	The type of radius used.
DesiredMargin:	In percent, your desired broker margin

Enums

EquipmentCategory

- Flat
- Van
- Reefer
- Specialized

Flat:	Flatbed
Van:	Van
Reefer:	Refrigerated Carrier
Specialized:	Other Equipment Types

Radius

- StateToState
- Within100Miles
- Within150Miles

StateToState:	Include rates from the origin state to the destination state
Within100Miles:	Include rates from within 100 miles of the origin city to within 100 miles of the
	destination city
Within150Miles:	Include rates from within 150 miles of the origin city to within 150 miles of the
	destination city