

Universal Traffic Service

Carrier Select Web Service Documentation

Purpose

The purpose of this web service is to allow clients the ability to see rates, on time percentages, and estimated delivery dates from several carriers for a shipment. Then, using a SCAC/accessorial (for guaranteed delivery rates) combination returned from this web service, they can enter shipments with the carriers of their choice using the Shipment Entry web service.

Note: This service is only applicable to LTL shipments. Shipments that are marked as expedite, are marked as tracking only, have load stops, or are of a weight/dimension/class combination that requires a truckload designation will not return rates.

Request

The request must be enclosed in a valid SOAP header. An example can be seen below:

```
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CarrierSelect xmlns="http://services.myuts.net/">
      <WebShipmentRequest>xml</WebShipmentRequest >
    </CarrierSelect>
  </soap:Body>
</soap:Envelope>
```

Request Header Content

HTTP Method: POST

URL: <http://services.myuts.net/webshipmentservice.asmx>

SOAP Method: CarrierSelect

WSDL: <http://services.myuts.net/webshipmentservice.asmx?WSDL>

Request Body Content

The carrier select request was made to closely resemble that of the shipment entry request.

Parameter (length)	Type	Required	Description
UTS	N/A	Yes	This is the request's root node.
UTS: ReturnEmail (256)	String	No	This is the email address to which shipment confirmations will be sent.
UTS: WebServiceVersion	Double	Yes	The version of the web service you are using. Currently 1.0

Parameter (length)	Type	Required	Description
UTS: WebShipment	N/A	Yes	This node represents a single shipment. There can be several shipments per request.
WebShipment: WebKey	String	Yes	This is a GUID access key provided by UTS which authorizes use of the web shipment service. One key will be assigned per shipping location to match each of your unique 'LocationID(s)'.
WebShipment: Shipper	N/A	Yes	This node represents shipper information for a shipment.
Shipper: LocationID (100)	String	Conditional	The client-defined identification code for this location. This field is required if the shipment is prepaid.
Shipper: Name (50)	String	Yes	This is the name of the shipper.
Shipper: Address (50)	String	Yes	This is the street address of the shipper.
Shipper: City (30)	String	Yes	This is the city of the shipper.
Shipper: State (2)	String	Yes	This is the two letter abbreviation for the shipper's state/province. For instance - Michigan would be invalid, but MI is valid.
Shipper: Zip (12)	String	Yes	This is the zip/postal code of the shipper.
Shipper: Country (50)	String	Yes	This is the country of the shipper. Options: USA, Canada
WebShipment: Consignee	N/A	Yes	This node represents consignee information for a shipment.
Consignee: LocationID	String	Conditional	The client-defined identification code for this location. This field is required if the shipment is collect.
Consignee: Name (50)	String	Yes	This is the name of the consignee.
Consignee: Address (50)	String	Yes	This is the street address of the consignee.
Consignee: City (30)	String	Yes	This is the city of the consignee.
Consignee: State (2)	String	Yes	This is the two letter abbreviation for the consignee's state/province. For instance - Michigan would be invalid, but MI is valid.
Consignee: Zip (12)	String	Yes	This is the zip/postal code of the consignee.
Consignee: Country (50)	String	Yes	This is the country of the consignee. Options: USA, Canada
WebShipment: BillTo	N/A	Conditional	This node represents bill to information for a shipment. This node is required if the PaymentType is 3 rd party or if the location associated to the WebKey is not the paying party (These are considered 'Tracing Only' shipments).
BillTo: LocationID (100)	String	No	The client-defined identification code for this location. If specified, this field is used to check the validity of the payment type.
BillTo: Name (50)	String	Conditional	This is the name of the bill to company. This field is required if the BillTo is required. Options:

Parameter (length)	Type	Required	Description
			USA, Canada
BillTo: Address (50)	String	Conditional	This is the street address of the bill to company. This field is required if the BillTo is required.
BillTo: City (30)	String	Conditional	This is the city of the bill to. This field is required if the BillTo is required.
BillTo: State (2)	String	Conditional	This is the two letter abbreviation for the bill to company's state/province. For instance - Michigan would be invalid, but MI is valid. This field is required if the BillTo is required.
BillTo: Zip (12)	String	Conditional	This is the zip/postal code of the bill to company. This field is required if the BillTo is required.
BillTo: Country (50)	String	Conditional	This is the country of the bill to company. This field is required if the BillTo is required.
WebShipment: VehicleType (50)	String	Yes	The vehicle used to deliver the shipment. The default value should be 'Van' unless special equipment is required for the shipment. Options: CargoVan, CubeVan, CurtainSide, Drayage, Flatbed, Intermodal, Reefer, StepDeck, Straight, Tanker, Van , HeatedTrailer, DropFrameVan, 3PlusAxleTrailer, BTrain, DoubleDrop, Sidekit, RemoveGooseneck, MiniVan, TankerFoodGrade, Tractor
WebShipment: PaymentType (50)	String	Yes	This is the payment type for the shipment. Options: 3 rd Party, Collect, Prepaid, Prepaid/Add This will be used to compare against the WebKey and LocationIDs provided to determine the proper BillTo party.
WebShipment: ReadyDate	DateTime	Yes	The earliest date when the shipment will be ready for pickup. Format: MM/dd/yyyy.
WebShipment: ReadyTime	DateTime	Yes	The earliest time when the shipment will be ready for pickup. Format: hh:mm am/pm.
WebShipment: PickupDate	DateTime	No	The latest date when the shipment will be picked up. Format: MM/dd/yyyy. Note: If no pickup date is supplied, ready date will be assumed.
WebShipment: PickupTime	DateTime	No	The latest time when the shipment will be picked up. Format: hh:mm am/pm. Note: If no pickup time is supplied, ready time will be assumed.
WebShipment: DeliveryDate	DateTime	No	The date when the shipment needs to be delivered. If this is defined, carriers that are unable to meet this deadline will not be considered as options. Format: MM/dd/yyyy.

Parameter (length)	Type	Required	Description
WebShipment: DeliveryTime	DateTime	No	The time when the shipment needs to be delivered. Format: hh:mm am/pm.
WebShipment: BOLNumber (50)	String	Conditional	This is the shipment's bill of lading number. This is a requirement only if the client associated to the shipment has specified to UTS that it is required.
WebShipment: PONumber (50)	String	Conditional	This is the shipment's purchase order number. This is a requirement only if the client associated to the shipment has specified to UTS that it is required.
WebShipment: AETCNumber (50)	String	Conditional	This is the shipment's authorized excess transportation cost number. This is a requirement only if the client associated to the shipment has specified to UTS that it is required.
WebShipment: CustRefNumber (50)	String	Conditional	This is a client-specified identification number. This is a requirement only if the client associated to the shipment has specified to UTS that it is required.
WebShipment: LineItems	N/A	Yes	This node contains all of the individual line items on the shipment. Each individual line item is represented by a NewLineItem node.
LineItems: NewLineItem	N/A	Yes	This node contains information for a single line item.
NewLineItem: Pieces	Integer	Yes	The number of pieces, or quantity of the line item.
NewLineItem: Weight	Double	Yes	The weight of the line item in imperial pounds.
NewLineItem: Class	Double	Yes	The freight class of the line item. Options: 50, 55, 60, 65, 70, 77.5, 85, 92.5, 100, 110, 125, 150, 175, 200, 250, 300, 400, 500
NewLineItem: NMFC (10)	String	No	The National Motor Freight Classification number.
NewLineItem: UNNA (20)	String	Conditional	The United Nations/North American number. This is required if the shipment contains hazardous material.
NewLineItem: PackageType	Integer	Yes	The type of packaging for the line item.
	Package Type Options <hr/> 1: Bag / Sack 2: Basket 3: Blanket Wrap 4: Box 5: Bulk 6: Bundle 7: Drum 8: Crate / Rack 9: Hopper 10: Loose 11: Reel / Roll 12: Skid / Pallet 13: Tote 15: Spindle 16: Keg 17: Tank 18: Cylinder 19: Carton 20: Tube 21: Pail		
NewLineItem: Description (200)	String	Yes	The description of the line item, and what it contains.
NewLineItem: IsHazmat	Boolean	Yes	(true/false) If true, this line item is marked as a hazardous material.

Parameter (length)	Type	Required	Description
NewLineItem: Length	Double	No	The length dimension of the line item in imperial inches. Limit of 10 numbers before the decimal and 2 after the decimal. Note: Pricing of the shipment will be more accurate if length is provided.
NewLineItem: Width	Double	No	The width dimension of the line item in imperial inches. Limit of 10 numbers before the decimal and 2 after the decimal. Note: Pricing of the shipment will be more accurate if width is provided.
NewLineItem: Height	Double	No	The height dimension of the line item in imperial inches. Limit of 10 numbers before the decimal and 2 after the decimal. Note: Pricing of the shipment will be more accurate if height is provided.
WebShipment: ACDepartment (15)	String	No	Department account code.
WebShipment: ACGeneralLedger (15)	String	No	General ledger account code
WebShipment: ACSubLedger (15)	String	No	Subledger account code
WebShipment: ACMemo (15)	String	No	Account memo
NewLineItem: IsStackable	Boolean	Yes	(true/false) If true, this line item can be stacked.
WebShipment: SpaceRequirements (50)	String	No	Dimensions of the freight as defined by the line items.
WebShipment: ShipContains (50)	String	No	This is a description of the overall handling that this shipment contains. Note: this is printed on the BOL.
WebShipment: LengthDefinedByLineItems	Integer	No	This is the total length of the shipment in imperial feet. This defines the number of feet of a trailer the freight will occupy. Note: If this value is not provided, it will be calculated based on the length, width, and height, or weight and class of the line items on the shipment.
WebShipment: CODType	String	No	This is only necessary if your shipment is cash on delivery. This specifies the type of COD. Options: Certified, Company
WebShipment: CODFee	Double	No	This is only necessary if your shipment is cash on delivery. This specifies who collects the COD fee. Options: Prepaid, Collect

Parameter (length)	Type	Required	Description
WebShipment: CODAmount	Double	No	This is only necessary if your shipment is cash on delivery. This is the dollar amount of the COD.
WebShipment: UTSNotes	String	No	Any additional notes you would like only UTS to see with the shipment. These are not printed on the bill of lading.
WebShipment: BOLNotes	String	No	Any additional notes you would like the carrier to see on the bill of lading.
WebShipment: Accessorials	N/A	No	This node contains all of the individual accessorials on the shipment. Each individual accessorial is represented by a NewAccessorial node.
Accessorials: NewAccessorial	N/A	No	This node contains information for a single accessorial.
NewAccessorial: AccessorialType	Integer	Yes	This is a numeric code that represents an accessorial that can be applied to the shipment. For a full list of accessorial codes, refer to our <i>Accessorial Codes</i> documentation.
WebShipment: IncludeGuaranteedAccessorial	Boolean	Yes	(true/false) If true, Supported guaranteed accessorial will be returned in the Carrier Select Results.

Request Body Structure

```

<UTS>
  <TestShipment>Boolean </TestShipment>
  <ReturnEmail>String </ReturnEmail>
  <WebServiceVersion>Double</WebServiceVersion>
  <WebShipment>
    <WebKey>GUID, UTS assigned</WebKey>
    <Shipper>
      <LocationID>String </LocationID>
      <Name>String </Name>
      <Address>String </Address>
      <City>String </City>
      <State>String </State>
      <Zip>String </Zip>
      <Country>String </Country>
    </Shipper>
    <Consignee>
      <LocationID>String </LocationID>
      <Name>String </Name>
      <Address>String </Address>
      <City>String </City>
      <State>String </State>
      <Zip>String</Zip>
      <Country>String</Country>
    </Consignee>
    <VehicleType>String</VehicleType>
    <PaymentType>String</PaymentType>
    <BillTo>

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```
<LocationID>String</LocationID>
<Name>String</Name>
<Address>String</Address>
<City>String</City>
<State>String</State>
<Zip>String</Zip>
<Country>String </Country>
</BillTo>
<ReadyDate>ShortDate</ReadyDate>
<ReadyTime>ShortTime</ReadyTime>
<PickupDate>ShortDate</PickupDate>
<PickupTime>ShortTime</PickupTime>
<DeliveryDate>ShortDate</DeliveryDate>
<DeliveryTime>ShortTime</DeliveryTime>
<BOLNumber>String</BOLNumber>
<PONumber>String</PONumber>
<AETCNumber>String</AETCNumber>
<CustRefNumber>String</CustRefNumber>
<LinelItems>
  <NewLinelItem>
    <Pieces>Int</Pieces>
    <Weight>Double</Weight>
    <Class>Int</Class>
    <NMFC>String</NMFC>
    <UNNA>String</UNNA>
    <Description>String</Description>
    <PackageType>Int</PackageType>
    <Length>Double</Length>
    <Width>Double</Width>
    <Height>Double</Height>
    <IsHazmat> Boolean</IsHazmat>
    <IsStackable> Boolean</IsStackable>
  </NewLinelItem>
</LinelItems>
<ACDepartment>String</ACDepartment>
<ACGeneralLedger>String</ACGeneralLedger>
<ACSubLedger>String</ACSubLedger>
<ACMemo>String</ACMemo>
<SpaceRequirements>String</SpaceRequirements>
<ShipContains>String</ShipContains>
<LengthDefinedByLinelItems>Int</LengthDefinedByLinelItems>
<IsPending> Boolean</IsPending>
<CODType>String</CODType>
<CODFee>String</CODFee>
<CODAmount>Double</CODAmount>
<UTSNotes>String</UTSNotes>
<BOLNotes>String</BOLNotes>
<Accessorials>
  <NewAccessorial>
    <AccessorialType>Int</AccessorialType>
  </NewAccessorial>
</Accessorials>
< IncludeGuaranteedAccessorial>Boolean< /IncludeGuaranteedAccessorial>
```

</WebShipment>

</UTS>

Response

Response Body Content

Parameter (length)	Type	Description
CarrierSelectResponse	N/A	This is the response's root node.
CarrierSelectResponse: WebShipments	N/A	This node contains all of the individual shipments and their carrier select information in the response. Each individual shipment is represented by a WebShipment node.
WebShipments: WebShipment	N/A	This node contains information for a single shipment's carrier select information.
WebShipment: ResponseCode	Integer	0 (zero) represents that the shipment was calculated successfully. 1 represents that an error occurred. Often times, the reason for a failure is displayed in the Warnings collection of this response.
WebShipment: ResponseMessage	String	This will return a success message when a response code of 0 is returned. Otherwise, this will contain a failure message.
WebShipment: AvailableCarriers	N/A	This node contains all of the computed carriers for the shipment. Each individual carrier computation is represented by a Carrier node.
AvailableCarriers: Carrier	N/A	This node contains information for a single carrier computation.
Carrier: CarrierID	Integer	This is a UTS specific unique identifier for the carrier.
Carrier: CarrierName	String	This is the name of the carrier.
Carrier: EstDeliveryDate	DateTime	If this carrier is used for the shipment, this is the estimated delivery date.
Carrier: TransitDays	Integer	If this carrier is used for the shipment, this is the estimated number of days necessary to deliver the freight.
Carrier: Coverage	String	This is the type of coverage this carrier has for this shipment. Options: Covered, Banned, Not Covered, Indirect
Carrier: PercentOnTime	Integer	The UTS assigned percentage used to measure carrier performance for similar lanes matching this shipment data.
Carrier: ServiceDescription	String	This is a description of the type of service that this rate represents. 'Standard' is the default. This is updated with a different description when this rate represents a guaranteed delivery accessorial.
Carrier: IsPreferredCarrier	Boolean	(true/false) This is true when this carrier is found to be the best match by UTS for your shipment.
Carrier: IsGuaranteedDelivery	Boolean	(true/false) This is true when this carrier rate represents a guaranteed accessorial charge.
Carrier: GuaranteedDeliveryAccessorialType	Integer	This is a numeric code that represents a guaranteed accessorial that is applied to the rate. For a full list of accessorial codes, refer to our <i>Accessorial Codes</i> documentation.

Parameter (length)	Type	Description
Carrier: LiabilityInsuranceCoverageForNew	Decimal	This is the insurable dollar amount that the carrier covers for new commodities being shipped.
Carrier: LiabilityInsuranceCoverageForUsed	Decimal	This is the insurable dollar amount that the carrier covers for used commodities being shipped.
Carrier: Net	Decimal	This is the total cost of this individual shipment.
Carrier: Warnings	N/A	This node contains all of the individual warnings for the carrier rate. Each individual warning is represented by a Warning node.
Warnings: Warning	String	This is a single warning message for the carrier rate. Warning messages contain additional information about the carrier rate.
WebShipment: CustRefNumber	String	This is a client-specified identification number. This is returned if it was contained in the request. This will make it easier to distinguish which shipment the carrier rates belongs to in the return.
WebShipment: BOLNumber	String	This is the shipment's bill of lading number. This is returned if it was contained in the request. This will make it easier to distinguish which shipment the carrier rates belongs to in the return.
WebShipment: PONumber	String	This is the shipment's purchase order number. This is returned if it was contained in the request. This will make it easier to distinguish which shipment the carrier rates belongs to in the return.
WebShipment: Warnings	N/A	This node contains all of the individual warnings for the shipment. Each individual warning is represented by a Warning node.
Warnings: Warning	String	This is a single warning message for the shipment. Warning messages contain additional information about the request, or the shipment.
Preferred Carrier: CarrierSCAC	String	Preferred Carrier SCAC. If no carrier is ranked, the SCAC will be "TBD"
Preferred Carrier: CarrierName	String	Preferred Carrier Name. If no carrier is ranked, the name will be "TBD"
Preferred Carrier: CarrierPrice	String	Preferred Carrier Price (without guaranteed accessorials). If no carrier is ranked or the price cannot be computed, the price will be "TBD"
Preferred Carrier: CarrierID	Integer	Preferred Carrier ID. If no carrier is ranked, the value will not be returned.
CarrierSelectResponse: Disclaimer	String	This is a message detailing the terms of our carrier select system.
CarrierSelectResponse: ResponseMessage	String	This message displays any errors that may occur if there are problems with the request as a whole, as opposed to an individual shipment in the request.

Response Body Structure

```
<CarrierSelectResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="">
  <WebShipments>
    <WebShipment>
      <ResponseCode>Integer</ResponseCode>
```

```
<ResponseMessage>String</ResponseMessage>
<AvailableCarriers>
  <Carrier>
    <CarrierID>Integer</CarrierID>
    <CarrierName>String</CarrierName>
    <EstDeliveryDate>Date</EstDeliveryDate>
    <TransitDays>Integer</TransitDays>
    <Coverage>String</Coverage>
    <PercentOnTime>Integer</PercentOnTime>
    <ServiceDescription>String</ServiceDescription>
    <IsPreferredCarrier>Boolean</IsPreferredCarrier>
    <IsGuaranteedDelivery>Boolean</IsGuaranteedDelivery>
  <GuaranteedDeliveryAccessororialType>Integer</GuaranteedDeliveryAccessororialType>
  <Net>Decimal</Net>
  <LiabilityInsuranceCoverageForNew>Decimal</LiabilityInsuranceCoverageForNew>
  <LiabilityInsuranceCoverageForUsed>Decimal</LiabilityInsuranceCoverageForUsed>
  <Disclaimer>String</Disclaimer>
</Carrier>
  <Carrier>
    <SCAC>String</SCAC>
    <CarrierName>String</CarrierName>
    <EstDeliveryDate>Date</EstDeliveryDate>
    <TransitDays>Integer</TransitDays>
    <Coverage>String</Coverage>
    <PercentOnTime>Integer</PercentOnTime>
    <ServiceDescription>String</ServiceDescription>
    <IsPreferredCarrier>Boolean</IsPreferredCarrier>
    <IsGuaranteedDelivery>Boolean</IsGuaranteedDelivery>
  <GuaranteedDeliveryAccessororialType>Integer</GuaranteedDeliveryAccessororialType>
  <Net>Decimal</Net>
  <LiabilityInsuranceCoverageForNew>Decimal</LiabilityInsuranceCoverageForNew>
  <LiabilityInsuranceCoverageForUsed>Decimal</LiabilityInsuranceCoverageForUsed>
  <Disclaimer>String</Disclaimer>
</Carrier>
</AvailableCarriers>
<CustRefNumber>String</CustRefNumber>
<BOLNumber>String</BOLNumber>
<PONumber>String</PONumber>
<PreferredCarrier>
  <CarrierSCAC>String</CarrierSCAC>
  <CarrierName>String</CarrierName>
  <CarrierPrice>String</CarrierPrice>
  <CarrierID>Integer</CarrierID>
</PreferredCarrier>
<Warnings />
</WebShipment>
</WebShipments>
<Disclaimer>String</Disclaimer>
</CarrierSelectResponse>
```