

Universal Traffic Service

Shipment Entry Web Service Documentation

Purpose

The purpose of this web service is to allow clients to integrate the shipment entry process with Universal Traffic Service.

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>
    <SubmitWebShipment xmlns="http://services.myuts.net/">
      <WebShipmentRequest>xml</WebShipmentRequest>
    </SubmitWebShipment>
  </soap:Body>
</soap:Envelope>
```

Request Header Content

HTTP Method: POST

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

SOAP Method: SubmitWebShipment

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

Request Body Content

Parameter (length)	Type	Required	Description
UTS	N/A	Yes	This is the request's root node.
UTS: TestShipment	Boolean	No	(true/false) If true, you will still receive a response, but your shipment will not be submitted for dispatch to a carrier.
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 to use. Currently 1.0
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)'.

Parameter (length)	Type	Required	Description
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, Mexico
Shipper: ContactName (30)	String	No	This is the name of a primary contact at the shipper.
Shipper: PhoneNumber (14)	String	No	This is a phone number to reach the contact person at the shipper.
Shipper: NotificationEmail (100)	String	No	Additional shipper email addresses to receive a tracking URL. Multiple email addresses need to be separated by a semicolon (;).
Shipper: NotifyCurrentOrderStatus	Boolean	No	(true/false) If true, recipients listed in the Shipper: NotificationEmail field are sent a tracking URL at the time the shipment is entered. Note: This requires Shipper: NotificationEmail
Shipper: NotifyDeliveredOrderStatus	Boolean	No	(true/false) If true, recipients listed in the Shipper: NotificationEmail field are notified when the shipment has been delivered. Note: This requires Shipper: NotificationEmail
Shipper: NotifyContinuousOrderStatus	Boolean	No	(true/false) If true, recipients listed in the Shipper: NotificationEmail field are notified with status updates throughout the shipment lifecycle. Note: This requires Shipper: NotificationEmail
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.

Parameter (length)	Type	Required	Description
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, Mexico
Consignee: ContactName (30)	String	No	This is the name of a contact person at the consignee.
Consignee: PhoneNumber (14)	String	No	This is a phone number to reach the primary contact at the consignee.
Consignee: NotificationEmail (100)	String	No	Additional consignee email addresses to receive a tracking URL. Multiple email addresses need to be separated by a semicolon (;).
Consignee: NotifyCurrentOrderStatus	Boolean	No	(true/false) If true, recipients listed in the Consignee: NotificationEmail field are sent a tracking URL at the time the shipment is entered. Note: This requires Consignee: NotificationEmail
Consignee: NotifyDeliveredOrderStatus	Boolean	No	(true/false) If true, recipients listed in the Consignee: NotificationEmail field are notified when the shipment has been delivered. Note: This requires Consignee: NotificationEmail
Consignee: NotifyContinuousOrderStatus	Boolean	No	(true/false) If true, recipients listed in the Consignee: NotificationEmail field are notified with status updates throughout the shipment lifecycle. Note: This requires Consignee: NotificationEmail
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: 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.

Parameter (length)	Type	Required	Description
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: RateQuoteID (13)	String	No	If added, this is used to attribute a rate quote to the shipment. This can be obtained by making use of the rate estimate feature on myUTS, or the rate estimate web service.
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: Expedite	Boolean	No	(true/false) If true, this shipment will be marked as an expedite shipment.
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.

Parameter (length)	Type	Required	Description
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.
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: Stops	N/A	No	This node contains all of the individual load stops on the shipment. Each individual load stop is represented by a NewStop node.
Stops: NewStop	N/A	No	This node contains information for a single load stop.
NewStop: StopType	String	Yes	This is the category of stop that this load stop represents. Options: Pickup, Drop, Transfer
NewStop: Name (50)	String	Yes	This is the name of the company on the load stop.
NewStop: Address (50)	String	Yes	This is the street address of the company on the load stop.
NewStop: City (30)	String	Yes	This is the city of the company on the load stop.
NewStop: State (2)	String	Yes	This is the two letter abbreviation for the load stop company's state/province. For instance - Michigan would be invalid, but MI is valid.
NewStop: Zip (12)	String	Yes	This is the zip/postal code of the company on the load stop.
NewStop: Country (50)	String	Yes	This is the country of the company on the load stop.
NewStop: Pieces	Integer	No	This is the number of pieces to pick up or drop off at the stop location.
NewStop: Weight	Double	No	This is the weight of the material to pick up or drop off at the load stop.
NewStop: Contents (50)	String	No	This is the description of the commodities to pick up or drop off at the load stop.

Parameter (length)	Type	Required	Description
NewStop: BOLNumber (50)	String	No	This is the bill of lading number for the load stop.
NewStop: PONumber (50)	String	No	This is the purchase order number for the load stop.
NewStop: Comments (200)	String	No	Any additional comment about this load stop.
WebShipment: Lineltems	N/A	Yes	This node contains all of the individual line items on the shipment. Each individual line item is represented by a NewLineltem node.
Lineltems: NewLineltem	N/A	Yes	This node contains information for a single line item.
NewLineltem: Pieces	Integer	Yes	The number of pieces, or quantity of the line item.
NewLineltem: Weight	Double	Yes	The weight of the line item in imperial pounds.
NewLineltem: 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
NewLineltem: NMFC (10)	String	No	The National Motor Freight Classification number.
NewLineltem: UNNA (20)	String	Conditional	The United Nations/North American number. This is required if the shipment contains hazardous material.
NewLineltem: PackageType	Integer	Yes	The type of packaging for the line item.
	Package Type Options		
	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	
NewLineltem: Description (200)	String	Yes	The description of the line item, and what it contains.
NewLineltem: IsHazmat	Boolean	Yes	(true/false) If true, this line item is marked as a hazardous material.
NewLineltem: 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.
NewLineltem: Width	Double	No	The width dimension of the line item in imperial inches.

Parameter (length)	Type	Required	Description
			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.
NewLineItem: IsStackable	Boolean	Yes	(true/false) If true, this line item can be stacked.
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
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: IsPending	Boolean	No	(true/false) If true, this shipment will be submitted as a pending shipment. This shipment will not be dispatched or delivered. Instead, it will be accessible from myUTS if you would like to submit it for dispatch at a later time.
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
WebShipment: CODAmount	Double	No	This is only necessary if your shipment is cash on delivery. This is the dollar amount of the COD.

Parameter (length)	Type	Required	Description
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: IsTracingOnly	Boolean	No	(true/false) If true, the shipment will be entered as a tracing only shipment. This means that UTS will track the shipment on your behalf, but will not bill freight charges directly.
WebShipment: CarrierName (55)	String	Conditional	This is the name of the carrier on the shipment. This is required if IsTracingOnly is marked as true. UTS can automatically assign a carrier otherwise if nothing is filled in the SCAC field.
WebShipment: CarrierID	String	No	This is a UTS-specific, unique identifier for a carrier. If this is provided, UTS will use this carrier instead of automatically applying a carrier based on ranking logic.
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.

Request Body Structure

```

<UTS>
  <TestShipment>Boolean, Optional</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>
      <ContactName>String</ContactName>
      <PhoneNumber>String</PhoneNumber>
      <NotificationEmail>String</NotificationEmail>
      <NotifyCurrentOrderStatus>Boolean</NotifyCurrentOrderStatus>
    
```



```
<NotifyDeliveredOrderStatus> Boolean</NotifyDeliveredOrderStatus>
<NotifyContinuousOrderStatus> Boolean</NotifyContinuousOrderStatus>
</Shipper>
<Consignee>
  <LocationID>String</LocationID>
  <Name>String</Name>
  <Address>String</Address>
  <City>String</City>
  <State>String</State>
  <Zip>String</Zip>
  <Country>String</Country>
  <ContactName>String</ContactName>
  <PhoneNumber>String</PhoneNumber>
  <NotificationEmail>String</NotificationEmail>
  <NotifyCurrentOrderStatus> Boolean</NotifyCurrentOrderStatus>
  <NotifyDeliveredOrderStatus> Boolean</NotifyDeliveredOrderStatus>
  <NotifyContinuousOrderStatus> Boolean</NotifyContinuousOrderStatus>
</Consignee>
<VehicleType>String</VehicleType>
<Expedite>Boolean</Expedite>
<PaymentType>String</PaymentType>
<BillTo>
  <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>
<Stops>
  <NewStop>
    <StopType>String</StopType>
    <Name>String</Name>
    <Address>String</Address>
    <City>String</City>
    <State>String</State>
    <Zip>String</Zip>
    <Country>String</Country>
    <Pieces>Int</Pieces>
    <Weight>Double</Weight>
    <Contents>String</Contents>
    <BOLNumber>String</BOLNumber>
```

```
        <PONumber>String</PONumber>
        <Comments>String</Comments>
    </NewStop>
</Stops>
<LinItems>
    <NewLinItem>
        <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>
    </NewLinItem>
</LinItems>
<ACDepartment>String</ACDepartment>
<ACGeneralLedger>String</ACGeneralLedger>
<ACSubLedger>String</ACSubLedger>
<ACMemo>String</ACMemo>
<SpaceRequirements>String</SpaceRequirements>
<ShipContains>String</ShipContains>
<LengthDefinedByLinItems>Int</LengthDefinedByLinItems>
<IsPending> Boolean</IsPending>
<IsTracingOnly> Boolean</IsTracingOnly>
<CarrierName>String</CarrierName>
<CarrierID>Int</CarrierID>
<CODType>String</CODType>
<CODFee>String</CODFee>
<CODAmount>Double</CODAmount>
<UTSNotes>String</UTSNotes>
<BOLNotes>String</BOLNotes>
<Accessorials>
    <NewAccessorial>
        <AccessorialType>Int</AccessorialType>
    </NewAccessorial>
</Accessorials>
</WebShipment>
</UTS>
```

Response

Response Body Content

Parameter (length)	Type	Description
UTS	N/A	This is the response's root node.
UTS: Shipments	N/A	This node contains all of the individual shipments and their information in the response. Each individual shipment is represented by a Shipment node.
Shipments: Shipment	N/A	This node contains information for a single shipment's response information.
Shipment: ResponseCode	Integer	0 (zero) represents that the shipment was entered successfully. 1 represents that an error occurred. Often times, the reason for a failure is displayed in the warnings collection of this response.
Shipment: ResponseMessage	String	This will return a success message when a response code of 0 is returned. Otherwise, this will contain a failure message.
Shipment: OrderID	String	This is a unique identifier that UTS has applied to the shipment. This identifier can be used to track your shipment.
Shipment: TrackingUrl	String	This is a link that can show you real-time information about your shipment as UTS receives updates on it.
Shipment: BolUrl	String	This is a link that can be used to download a bill of lading for this shipment.
Shipment: CarrierName	String	This is the name of the carrier that has been assigned to this shipment.
Shipment: CarrierID	String	This is UTS's unique identifier for the carrier.
Shipment: TransitDays	Integer	This is the estimated number of days necessary to deliver the freight.
Shipment: EstDeliveryDate	DateTime	This is the estimated date of delivery for the freight.
Shipment: PONumber	String	This is the purchase order number for the shipment.
Shipment: BolNumber	String	This is the bill of lading number for the shipment.
Shipment: Dist1	String	This is a client-specified identification number (should match the CustRefNumber if it was assigned in the request).
Accessorials	N/A	This node contains all of the individual accessorials that were applied to the shipment. Each individual accessorial is represented by an Accessorial node. For a full list of accessorial codes, refer to our <i>Accessorial Codes</i> documentation.
Accessorials: Accessorial	N/A	This node contains information about a single accessorial applied to the shipment.
Accessorial: Type	String	This is a description of the accessorial.
Accessorial: Charge	Decimal	This is the cost of the accessorial.
Shipment: Charges	N/A	This node contains information about the charges that were applied to the shipment.
Charges: Base	Decimal	This is the cost of the shipment before the fuel surcharge and accessorials are added.
Charges: FSC	Decimal	This is the cost of the fuel (fuel surcharge).

Parameter (length)	Type	Description
Charges: Accessorials	Decimal	This is the total cost of accessorials.
Charges: Net	Decimal	This is the total cost of the shipment.
Shipment: 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. For instance, in some circumstances UTS cannot return pricing for a shipment. A warning would tell you the reason.

Response Body Structure

```

<UTS xmlns="http://services.myuts.net/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Shipments>
    <Shipment>
      <ResponseCode>Integer</ResponseCode>
      <ResponseMessage>String</ResponseMessage>
      <OrderID>String</OrderID>
      <TrackingUrl>String</TrackingUrl>
      <BolUrl>String</BolUrl>
      <CarrierName>String</CarrierName>
      <CarrierID>Integer</CarrierID>
      <SCAC>String</SCAC>
      <TransitDays>Integer</TransitDays>
      <EstDeliveryDate>Date</EstDeliveryDate>
      <PONumber>String</PONumber>
      <BolNumber>String</BolNumber>
      <Dist1>String</Dist1>
      <Accessorials>
        <Accessorial>
          <Type>String</Type>
          <Charge>Decimal</Charge>
        </Accessorial>
      </Accessorials>
      <Charges>
        <Base>Decimal</Base>
        <FSC>Decimal</FSC>
        <Accessorials>Decimal</Accessorials>
        <Net>Decimal</Net>
      </Charges>
      <Warnings>
        <Warning>String</Warning>
      </Warnings>
    </Shipment>
  </Shipments>
</UTS>

```