



DAT SOAP API

Detailed Request Reference

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DAT SOAP API Overview

The SDK for DAT API is a set of documentation, specification (XML schema and WSDL) and sample code demonstrating the use of SOAP-based web-services API that provides programmatic access to the following data and services:

- Post and search for loads and trucks in the DAT load board
- Create alarms to automatically send back information for future loads or trucks matching specified criteria
- Look up DAT Truckload Rate Index spot and contract rate information for a single lane or batch of lanes, plus 13-month lane history
- Retrieve DAT CarrierWatch carrier authority, safety, DOT insurance and private insurance certificate information that the API calls send data to, and retrieve data from, DAT services in a standardized format that are easy to use
- Receive data on carriers who have completed a profile and signed a contract using DAT OnBoard

Detailed Request Documentation

Required fields are in bold. In some cases, only one of a set of choices is required; these sets are prefaced by One of:

Fields in bold in are required by the XML Schema and will always be present.

Fields marked as optional (i.e., non-bold) may be omitted in some cases, as described in the accompanying field documentation.

Authentication and Authorization

These requests are related to all of the other categories described below.

Login

Login to the API system. A valid login ID and password must be provided before API calls will be serviced. The Login request returns a session token, which is conceptually analogous to a web session cookie, and must be returned with all subsequent 'real' operations.

Note: The client application should cache this session token and use it on all subsequent requests. The session token will remain valid for 12 hours, a lifetime chosen with the intent of covering a full business day. Logging in separately for each 'real' request is not recommended or permitted. It adds considerable server load and latency, and can introduce a race condition in threaded or multi-process code.

A user can have at most one active session at a time - a login will invalidate a user's existing session.

Request Fields

| | |
|------------------------------|---|
| loginId (string) | Login ID assigned by DAT. Length: 4 - 16 |
| password (string) | Password (set by DAT account representative or in the 3Sixty Power application). Length: 4 - 30 |
| thirdPartyId (string) | This free-form identifier will be used to identify the application in which individual postings, searches, etc. originated, and will aid in debugging and user support issues. We recommend that each application accessing the API chooses its own identifier. e.g. "XYZLogisticsManagement", "\ABCTMS", etc. Length: 0 - 32 |
| apiVersion (int) | Specifies support for a particular API version. By default, API version 1 is assumed (equivalent to API releases in 2012 and earlier). Currently supported versions: 1, 2 If apiVersion is version 2 or greater, the API will support new equipment types and search classes and new search by equipment type(s) functionality (released in other DAT applications in Nov 2012). Note that this may return postings, search results and alarm matches, and equipment types and classes unknown to earlier client applications, so only applications which have tested and verified their support for new equipment types and classes should specify an apiVersion of 2 or higher. |

Response Fields

| | |
|------------------------------|---|
| token | The session token for this session. primary (base64Binary) secondary (base64Binary) expiration (dateTime) |
| expiration (dateTime) | The date and time when the session token will expire. This is provided so that prior to making a CSB request, a client can easily check to see if its token has expired. Valid Values: 2003-01-01T00:00:00.000Z - |

LookupCapabilities

Look up presence or absence of specific capabilities. Each user has the ability to perform certain operations within the system, depending on their active subscriptions. For example, only users with a premium CarrierWatch subscription are able to look up insurance certificate information. A TMS system

may want to alter its UI depending on the capabilities of the current user, so as to avoid presenting the user with functionality that will fail (e.g., removing a 'Search' tab for a user with a post-only subscription).

Request Fields

| | |
|-------------------|---|
| capability | Capability or capabilities of interest. A boolean result will be returned for each capability requested, in the same order as specified in the request. Valid Values: Manage Postings, Search, Alarm Match, Lookup Spot Rates, Lookup Contract Rates, Lookup Basic Carrier Info, Lookup Premium Carrier Info |
|-------------------|---|

Response Fields

| | |
|------------------------------------|--|
| capabilityPresent (boolean) | Result of the capability query, in the same order as specified in the request. |
|------------------------------------|--|

Asset Management

Requests related to posting, updating, and managing shipment and equipment postings.

NOTE: Clients must track their postings, and using the requests below, delete specific loads which are no longer available (e.g. the load was covered) or update the information for any loads which have changed. Implementations may not periodically simply delete all postings and re-post available trucks/loads. This will negatively impact system performance, and so is not allowed. As part of the certification process, DAT will check to ensure that all Freight Matching clients make use of the UpdateAsset request.

PostAsset

Post one or more assets (shipments or equipment) to DAT's freight-matching system. Postings are immediately searchable by all DAT users.

Request Fields

One of:

shipment

| | |
|----------------------|---|
| equipmentType | The type of equipment that is needed to haul this shipment. See <code>EquipmentType</code> |
| origin | The origination point of this shipment. See <code>Place</code> |
| destination | The destination point of this shipment. See <code>Place</code> |
| truckStops | All the information needed to advertise this shipment on the Truck Stop network. If omitted, this shipment will not be advertised on the Truck Stop Network. |

One of:

truckStopIds

ids (int) A list of DAT/DAT identifiers for the truck stops the shipment should be displayed at.

Valid Values: 0 - 9999

closest

Select the truck stops closest to the shipment origin. The number of selected locations is determined by the poster's subscription and contract.

alternateClosest

Select the truck stops closest to an alternate origin point. This option is typically used to display the shipment on truck stops in the desired lane.

The number of selected locations is determined by the poster's subscription and contract.

alternateOrigin

Origin point. See [Place](#)

enhancements

Optional truck stop load monitor video enhancements for this shipment's advertisement.

Valid Values: [Flash](#), [Highlight](#)

posterDisplayName (string)

The short name of the poster's company, for display on the truck stop load monitors.

If omitted, the short name of the poster's company will default to that contained in the poster's company record.

Length: 0 - 8

rate

Payment rate in USD (at-rate or per-mile).

baseRateDollars (float)

Rate in US Dollars (the [rateBasedOn](#) element defines whether this is a at rate or per-mile).

Valid Values: 0.0 - 99999.99

rateBasedOn

Per-mile or at-rate.

Valid Values: [Flat](#), [PerMile](#)

rateMiles (int)

If the rate is based on per-mile, or at-rate for a trip, this is the mileage used by the poster. It is supplied by the poster, and may not agree with HHG mileage or that computed by mileage vendors.

Valid Values: 0 - 9999

equipment

equipmentType

The type of this equipment. See [EquipmentType](#)

origin

The origination point of this equipment. See [Place](#)

| | |
|-----------------------------|--|
| destination | The desired destination (point, area, or open). |
| One of: | |
| place | A specific location. See Place |
| area | A geographic area, defined by a list of states or a region. |
| stateProvinces | A list of states and/or provinces in the desired region. See StateProvince |
| zones | A list of one or more zones in the desired region. See Zone |
| open | Represents "anywhere". |
| postersReferenceId (string) | <p>Poster-supplied reference ID for this asset. Posters often use this to tag their assets with their own internal IDs.</p> <p>Length: 0 - 8</p> |
| ltl (boolean) | <p>"Less than truck load"</p> <p>For shipments, if set true, then this shipment will not occupy a full truck. For equipment, if set true, then this equipment does not have enough available capacity to carry a full shipment. The element dimensions should be used to specify cargo/capacity size.</p> <p>Note that in this usage, LTL is an attribute of a posting rather than of a carrier. Shippers or carriers who deal primarily in LTL logistics may post full loads and those who deal principally in full loads may occasionally post LTL assets, so this ag should not be used to infer anything regarding the owner's business model.</p> <p>Note: The Freight Matching Service never infers whether an asset is an LTL, based on physical dimensions, or any other criteria. It is entirely at the poster's discretion to specify whether an asset is an LTL.</p> <p>Default is false.</p> |
| comments (string) | <p>Optional comment(s) to be displayed for this asset on search results and the Truck Stop Network.</p> <p>Length: 0 - 70</p> |
| count (int) | <p>The number of assets represented by this description. This allows a requester to easily (and cheaply) post multiple identical assets. If omitted, defaults to 1.</p> <p>DAT does not automatically resolve duplicate postings and combine them into a single posting (although the count field would make this possible). Some customers prefer to track duplicate postings separately, so we allow usage of this field, but do not enforce it.</p> <p>Valid Values: 1 - 99</p> |

| | |
|------------------------|---|
| Dimensions | For shipments, this is the dimensions of the cargo. For equipment, this is the dimensions of the available cargo space. |
| lengthFeet (int) | Length of the shipment or truck deck in feet. Valid Values: 1 - 199 |
| weightPounds (int) | Weight of the shipment or truck carrying capacity in pounds. Valid Values: 1 - 199999 |
| heightInches (int) | Height of the shipment or truck box in inches. Valid Values: 1 - 299 |
| volumeCubicFeet (int) | Volume of the shipment or truck box in cubic feet. Valid Values: 1 - 9999 |
| stops (int) | Number of stops this asset must make. If omitted, defaults to 1 (i.e., the stop at the destination). Valid Values: 0 - |
| availability | For shipments, when available for pickup at its origination point. For equipment, when available to pick up shipments. If omitted, will be automatically defaulted to now (earliest), and now+24 hours (latest). |
| earliest (dateTime) | For shipments, the earliest the shipment can be picked up. For equipment, the earliest the equipment is available to pick up a shipment. Valid Values: 2003-01-01T00:00:00.000Z - |
| latest (dateTime) | For shipments, the latest the shipment can be picked up. For equipment, the latest the equipment is available to pick up a shipment. Valid Values: 2003-01-01T00:00:00.000Z - |
| alarm | If present, an alarm will automatically be generated for this new asset, using this setting for the alarm. See AlarmSearchCriteria |
| includeAsset (boolean) | If set true, then the response will return a copy of the asset (and the alarm if one was specified) as they were actually processed and posted by the Freight Matching Service. This saves the requester from doing a subsequent LookupAsset request. This is usually unnecessary, since most asset fields will be identical to those submitted in the request, but geographic points will usually be resolved to points known to DAT. This as-booked copy will include the actual location information recorded with the posting. If omitted, defaults to false. |

Response Fields

| | |
|-----------------------------|--|
| assetId (string) | The new asset's ID (assigned by the Freight Matching Service), by which the asset can be referenced for updates, deletions, lookups. Length: 0 - 8 |
| alarmId (string) | If an alarm match was requested when the asset was posted, this is the ID of the alarm that was generated. If the alarm could not be created, this item will be omitted and a warning will be returned along with the success data. Length: 0 - 8 |
| asset | If PostAssetOperation.includeAsset was set true, then this is an as-booked copy of the asset. See <i>Asset</i> |
| alarm | If the requester wants a copy of the asset after it was posted (see <i>PostAssetOperation.includeAsset</i>), and an alarm match was requested when the asset was posted, this is a copy of the alarm that was actually generated by the Freight Matching Service. |
| alarmId (string) | The ID of this alarm. Length: 0 - 8 |
| status | |
| userId (int) | The ID of the owner of this freight matching entity. Valid Values: 0 - |
| startDate (dateTime) | When this entity becomes active. Valid Values: 2003-01-01T00:00:00.000Z - |
| endDate (dateTime) | When this entity is no longer active. Valid Values: 2003-01-01T00:00:00.000Z - |
| created | When this entity was created. |
| user (int) | |
| date (dateTime) | |
| updated | When this entity was last updated. Will initially be set to the same as 'created'. |
| user (int) | |
| date (dateTime) | |
| lastModified | When this entity was last modified. I.e., the latter of 'created' and 'updated'. |

| | |
|--|---|
| user (int) | |
| date (dateTime) | |
| expired (boolean) | True if this asset has expired and is no longer visible in searches. |
| basisAssetId (string) | The asset this alarm is based on. Length: 0 - 8 |
| basisAssetPostersReferenceId (string) | The optional poster-supplied reference ID of the basis asset. If the asset did not have a poster-supplied reference ID, or this alarm was not based on an asset, then this element is omitted. Length: 0 - 8 |
| matchesRemaining (int) | Number of matches remaining that can be returned for this alarm. Valid Values: 0 - 3000 |
| maxMatches (int) | Maximum number of matches that will be returned over the lifetime of this alarm. Valid Values: 0 -- 3000 |
| alarmCriteria | The alarm criteria supplied when this alarm was created (or last updated). See AlarmSearchCriteria |
| matchingAssetIds (string) | List of the IDs of the assets that have been matched by this alarm. Length: 0 - 8 |

UpdateAsset

Update an existing shipment or equipment posting. Updated postings will be immediately searchable by all DAT users.

Request Fields

One of:

| | |
|------------------------------------|---|
| assetId (string) | The Asset ID of the asset to be updated. Length: 0 - 8 |
| postersReferenceId (string) | The Reference ID of the asset to be updated. Length: 0 - 8 |

One of:

| | |
|-----------------------|---|
| shipmentUpdate | Shipment-specific items which can be updated. |
| ItI (boolean) | |

| | |
|-------------------------|---|
| comments (string) | The number of comments on a posting exposed to truck stops cannot be decreased. Omitting comments from an update is allowable (the previous comment(s) will be left unchanged), but including a single comment when the posting currently includes 2 will result in an error. Length: 0 - 70 |
| count (int) | |
| dimensions | |
| lengthFeet (int) | Length of the shipment or truck deck in feet. Valid Values: 1 - 199 |
| weightPounds (int) | Weight of the shipment or truck carrying capacity in pounds. Valid Values: 1 - 199999 |
| heightInches (int) | Height of the shipment or truck box in inches. Valid Values: 1 - 299 |
| volumeCubicFeet (int) | Volume of the shipment or truck box in cubic feet. Valid Values: 1 - 9999 |
| stops (int) | |
| truckStops | Truckstop locations can be altered, but the number of truck stops cannot be decreased. |
| One of: | |
| truckStopIds | |
| ids (int) | A list of DAT identifiers for the truck stops the shipment should be displayed at. Valid Values: 0 - 9999 |
| closest | Select the truck stops closest to the shipment origin. The number of selected locations is determined by the poster's subscription and contract. |
| alternateClosest | Select the truck stops closest to an alternate origin point. This option is typically used to display the shipment on truck stops in the desired lane. The number of selected locations is determined by the poster's subscription and contract. |
| alternateOrigin | Origin point. See Place |
| enhancements | Optional truck stop load monitor video enhancements for this shipment's advertisement. |

| | |
|---|--|
| | Valid Values: <code>Flash</code> , <code>Highlight</code> |
| <code>posterDisplayName</code> (string) | <p>The short name of the poster's company, for display on the truck stop load monitors.</p> <p>If omitted, the short name of the poster's company will default to that contained in the poster's company record.</p> <p>Length: 0 - 8</p> |
| <code>rate</code> | Payment rate in USD (at-rate or per-mile). |
| <code>baseRateDollars</code> (float) | <p>Rate in US Dollars (the <code>rateBasedOn</code> element defines whether this is a at rate or per-mile).</p> <p>Valid Values: 0.0 - 99999.99</p> |
| <code>rateBasedOn</code> | <p>Per-mile or at-rate. –</p> <p>Valid Values: <code>Flat</code>, <code>PerMile</code></p> |
| <code>rateMiles</code> (int) | <p>If the rate is based on per-mile, or at-rate for a trip, this is the mileage used by the poster. It is supplied by the poster, and may not agree with HHG mileage or that computed by mileage vendors.</p> <p>Valid Values: 0 - 9999</p> |
| <code>equipmentUpdate</code> | <p>There are currently no equipment-specific items which can be updated. This element is included for potential future expansion.</p> |
| <code>ltl</code> (boolean) | |
| <code>comments</code> (string) | <p>The number of comments on a posting exposed to truck stops cannot be decreased. Omitting comments from an update is allowable (the previous comment(s) will be left unchanged), but including a single comment when the posting currently includes 2 will result in an error.</p> <p>Length: 0 - 70</p> |
| <code>count</code> (int) | |
| <code>dimensions</code> | |
| <code>lengthFeet</code> (int) | <p>Length of the shipment or truck deck in feet.</p> <p>Valid Values: 1 - 199</p> |
| <code>weightPounds</code> (int) | <p>Weight of the shipment or truck carrying capacity in pounds.</p> <p>Valid Values: 1 - 199999</p> |
| <code>heightInches</code> (int) | <p>Height of the shipment or truck box in inches.</p> <p>Valid Values: 1 - 299</p> |
| <code>volumeCubicFeet</code> (int) | Volume of the shipment or truck box in cubic feet. |

Valid Values: 1 - 9999

stops (int)

Response Fields

No content required or provided

DeleteAsset

Deletes one or more posted assets.

To delete means the asset is no longer available for freight matching. If the asset is displayed on the Truck Stop Network, it will be removed from there as well.

Clients are strongly encouraged to delete postings that are no longer available. This will prevent unwanted callbacks to the client, and help ensure that searchers see accurate match results.

Request Fields

One of:

- | | |
|--|--|
| deleteAssetsByAssetIds | Delete one or more assets by AssetId. |
| deleteAssetByPostersReferenceId | Delete an asset by PostersReferenceId. |
| deleteAllMyAssets | Delete all assets owned by the requester. |
| deleteAllMyGroupsAssets | Delete all assets belonging by the requester or to other members of the requester's sharing group. |

Response Fields

No content required or provided

LookupAsset

Look up currently-booked assets. Note that access limits are placed on asset lookup. In general, a user can only look up their own assets and those belonging to others within their sharing group (if any).

Lookup requests are generally useful when a user wants to view or update their assets. If you want to see the assets of other users outside your own company, see `CreateSearchRequest` and the types referenced therein.

Request Fields

One of:

- | | |
|---------------------------------------|---|
| queryAssetsByAssetIds | Look up one or more assets by AssetId. |
| queryAssetByPostersReferenceId | Look up one or more assets by PostersReferenceId. |
| queryAllMyAssets | Look up all assets belonging to the requester. |

queryAllMyGroupsAssets Look up all assets belonging to the requester or to other members of the requester's sharing group.

Response Fields

| | |
|---------------------|---|
| assets | Details of the looked-up assets. See Asset |
| unreported (string) | <p>In order to keep the payload size (and transmission time) reasonable, the number of assets returned is limited. For requesters with more assets, this element contains the IDs of those assets not reported in assets.</p> <p>Clients can then feed this element to a new LookupAssetRequest, using queryAssetsByAssetIds, repeating as necessary until unreported is no longer returned.</p> <p>Length: 0 – 8</p> |

Book Now

DAT Book Now is a new feature in the DAT Load Board that enables Brokers to post load information on the DAT Load Board, and Carriers to view and book loads. It provides a digital platform for quickly matching supply and demand and automating tasks such as booking, pricing, and payments.

How to implement Book Now

These are the high-level steps for implementing Book Now with the DAT Load Board.

1. Brokers post loads that need shipping to the Load Board.

This is done in conjunction with the [PostAsset](#) features of this SOAP API. It provides the API for two different user scenarios:

- The Broker posts a load that includes a link to the Broker Portal URL. Carriers go to the URL to book a load.
- The Broker posts a load from within their TMS system. Carriers select a load and send a booking request from within the DAT Load Board to the TMS system.

2. When a Carrier selects a load:

- If the Broker has a Portal, DAT provides an encoded link (URL) that automatically opens a window to the Broker's internal load board (Carrier Portal).

Encoded into the URL is the information DAT is passing to the Broker, for example, the Carrier MC, DOT, Load ID (both customer and DAT), and email.

- If the Broker uses a TMS, the Carrier information is sent to the Broker's TMS URL via a REST API response shown [here](#).

3. The Carrier receives a confirmation whether the requested load is accepted.

4. For each booking, the Broker site (TMS or Portal) sends to DAT details about the booking process.

This is done using the REST API response shown below.

The following pages show the SOAP API for the required connector changes made via Asset Management's PostAsset requests for Book Now. It includes changes to the TfmiFreightMatching.xsd (Connexion) schema. Included are the two complex types that have been enhanced with optional BookItNow objects (highlighted in green), as well as the new objects needed to support the Book Now implementation.

Shipment

```
<xs:complexType name="Shipment">
  <xs:complexContent>
    <xs:extension base="tfmi:BaseAsset">
      <xs:sequence>
        <xs:element name="equipmentType" type="types:EquipmentType">
          <xs:annotation>
            <xs:documentation>
              The type of equipment that is needed to haul this
              shipment.
            </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="origin" type="tfmi:Place">
          <xs:annotation>
            <xs:documentation>
              The origination point of this shipment.
            </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="destination" type="tfmi:Place">
          <xs:annotation>
            <xs:documentation>
              The destination point of this shipment.
            </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="truckStops" type="tfmi:TruckStops" minOccurs="0">
          <xs:annotation>
            <xs:documentation>
              All the information needed to advertise this shipment on
              the Truck Stop network.<br/>
              <br/>
              If omitted, this shipment will not be advertised on the
              Truck Stop Network.
            </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="rate" type="tfmi:ShipmentRate" minOccurs="0">
          <xs:annotation>
            <xs:documentation>
              Payment rate in USD (flat-rate or per-mile).
            </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="bookItNow" type="tfmi:BookItNow" minOccurs="0">
          <xs:annotation>
            <xs:documentation>
              If present, provides a desired rate and a URL to the
              broker's carrier portal. Depending on the method
              requested, the searcher will either be redirected to
              the broker's carrier portal, or the load will be
              forwarded to a web service.
            </xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

        </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

ShipmentUpdate

```

<xs:complexType name="ShipmentUpdate">
  <xs:annotation>
    <xs:documentation>
      Shipment-specific items which can be updated.
    </xs:documentation>
  </xs:annotation>
  <xs:complexContent>
    <xs:extension base="tfmi:AssetUpdate">
      <xs:sequence>
        <xs:element name="truckStops" type="tfmi:TruckStops" minOccurs="0">
          <xs:annotation>
            <xs:documentation>
              Truckstop locations can be altered, but the number of
              truckstops cannot be decreased.
            </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="rate" type="tfmi:ShipmentRate" minOccurs="0">
          <xs:annotation>
            <xs:documentation>
              Payment rate in USD (flat-rate or per-mile).
            </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="postToExtendedNetwork" type="xs:boolean"
          minOccurs="0">
          <xs:annotation>
            <xs:documentation>
              Post this shipment to the Extended Network. Defaults to
              false.
            </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="bookItNow" type="tfmi:BookItNow" minOccurs="0">
          <xs:annotation>
            <xs:documentation>
              If present, provides a desired rate and a URL to the
              broker's carrier portal. Depending on the method
              requested, the searcher will either be redirected to
              the broker's carrier portal, or the load will be
              forwarded to a web service.
            </xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

```

        </xs:sequence>
    </xs:extension>
</xs:complexContent>
</xs:complexType>

```

New Types

```

<xs:complexType name="BookItNow">
  <xs:sequence>
    <xs:element name="rate" type="tfmi:OfferedRate">
      <xs:annotation>
        <xs:documentation>
          Desired rate for this asset.
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="url" type="xs:anyURI">
      <xs:annotation>
        <xs:documentation>
          Either the URL to this shipment at the broker's carrier portal,
          or the URL for the TMS system to receive the booking request
          notifications.
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="method" type="tfmi:BookItNowMethod">
      <xs:annotation>
        <xs:documentation>
          The method by which Book It Now information is forwarded to the
          posting broker.
        </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<!-- -->
<!-- -->
<!-- -->
<!-- -->
<xs:simpleType name="BookItNowMethod">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Post"/>
    <xs:enumeration value="Redirect"/>
  </xs:restriction>
</xs:simpleType>
<!-- -->
<!-- -->
<!-- -->
<!-- -->
<xs:complexType name="OfferedRate">
  <xs:annotation>
    <xs:documentation>
      Rate offered for a shipment (of course, still subject to negotiation).
      The description of a rate must include both the base rate, and

```

```

        how that rate was established.<br/>
        <br/>
        The rate may also have additional assessorial charges.
    </xs:documentation>
</xs:annotation>
<xs:sequence>
    <xs:element name="baseRateDollars">
        <xs:annotation>
            <xs:documentation>
                Offered rate in US Dollars.
            </xs:documentation>
        </xs:annotation>
        <xs:simpleType>
            <xs:restriction base="xs:float">
                <xs:minInclusive value="0.0" />
                <xs:maxInclusive value="99999.99" />
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
    <xs:element name="rateBasedOn" type="tfmi:OfferedRateBasedOnType"/>
    <xs:element name="assessorials" type="tfmi:AssessorialCharge" minOccurs="0"
        maxOccurs="2"/>
</xs:sequence>
</xs:complexType>
<!-- -->
<!-- -->
<!-- -->
<!-- -->
<xs:complexType name="AssessorialCharge">
    <xs:sequence>
        <xs:element name="chargeDollars">
            <xs:annotation>
                <xs:documentation>
                    The amount of an assessorial charge in US Dollars.
                </xs:documentation>
            </xs:annotation>
            <xs:simpleType>
                <xs:restriction base="xs:float">
                    <xs:minInclusive value="0.0" />
                    <xs:maxInclusive value="99999.99">
                </xs:restriction>
            </xs:simpleType>
        </xs:element>
        <xs:element name="chargeType" type="tfmi:AssessorialType"/>
    </xs:sequence>
</xs:complexType>
<!-- -->
<!-- -->
<!-- -->
<!-- -->
<xs:simpleType name="AssessorialType">
    <xs:annotation>
        <xs:documentation>
            The following types of assessorial charges/issues are defined:
        </xs:documentation>
    </xs:annotation>

```

```

</xs:annotation>
<xs:restriction base="xs:string">
  <xs:enumeration value="Collect Shipment"/>
  <xs:enumeration value="Dead-head"/>
  <xs:enumeration value="Detention"/>
  <xs:enumeration value="Extra Stops"/>
  <xs:enumeration value="Fuel Surcharge"/>
  <xs:enumeration value="Handwork"/>
  <xs:enumeration value="Layover"/>
  <xs:enumeration value="Out-of-Route"/>
  <xs:enumeration value="Pallets"/>
  <xs:enumeration value="Re-consignment"/>
  <xs:enumeration value="Spotted Trailer"/>
  <xs:enumeration value="Tarps"/>
  <xs:enumeration value="Teams"/>
  <xs:enumeration value="Truck Ordered not Utilized"/>
  <xs:enumeration value="Other"/>
</xs:restriction>
</xs:simpleType>
<!-- -->
<!-- -->
<!-- -->
<!-- -->
<xs:simpleType name="OfferedRateBasedOnType">
  <xs:annotation>
    <xs:documentation>
      Type of rate definitions:
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="Contract"/>
    <xs:enumeration value="Flat"/>
    <xs:enumeration value="PerMile"/>
    <xs:enumeration value="PerPiece"/>
    <xs:enumeration value="PerPound"/>
  </xs:restriction>
</xs:simpleType>

```

Search

Requests related to freight matching searches. Searching allows the user to find shipments and equipment currently available in the DAT system.

As a reminder, all applications that support searching for loads or trucks via the API must also support posting loads and/or trucks using the API, as appropriate for the customer.

Note: we provide 2 sets of login credentials for the test system, and we strongly recommend that you develop controlled tests for your search application, posting as one user and validating that your posting appears in searches executed as the other user.

CreateSearch

Search the DAT freight-matching system for shipments or equipment that meet a set of caller-specified criteria.

Request Fields

| | |
|--------------------------------|--|
| criteria | The criteria to be used for this search. See <code>SearchCriteria</code> |
| sortOrder | <p>The sort order to apply to the search results. The maximum number of matches returned depends on the requesting customer's subscriptions, configuration, and DAT policies.</p> <p>If omitted, defaults to <code>SortOrder.AGE</code> (i.e., newest matching assets first).</p> <p>Valid Values: <code>None</code>, <code>Closest</code>, <code>Alpha</code>, <code>Age</code></p> |
| includeSearch (boolean) | <p>If set true, then the response will return a copy of the search as it was actually processed by the Freight Matching Service. This saves the requester from doing a subsequent <code>LookupSearch</code> request.</p> <p>If omitted, defaults to false.</p> |

Response Fields

| | |
|--------------------------------------|--|
| searchId (string) | <p>ID of the new search (assigned by Freight Matching Service).</p> <p>Length: 0 - 8</p> |
| matches | <p>Detailed list of assets (if any) satisfying the search. Includes asset details and callback information.</p> <p>The matches are sorted according to the sort method specified in the search request. See <code>MatchingAsset</code></p> |
| remainingMatchingIds (string) | <p>List of IDs of matching assets (if any) satisfying the search, less those already presented in detail in "matches".</p> <p>The matching asset IDs are sorted identically to "matches" (see above).</p> <p>This list is suitable (and intended) for submission in subsequent <code>LookupSearchMatchesRequests</code>.</p> |

| | |
|---------------------------|--|
| | Length: 0 - 8 |
| totalMatches (int) | <p>The total number of matches found by this search. This number is always greater than or equal to the sum of the lengths of "matches" and \remainingMatchingIds".</p> <p>This number is not limited by system configuration, and depending on the search criteria, can be very large. Both the detailed matching assets and list of matching asset IDs are the "best" matches out of this total number of matches, based on specified sort and filter criteria.</p> <p>Valid Values: 0 -</p> |
| search | If CreateSearch.includeSearch was set true, then this is an as-booked copy of the search. See Search |

LookupSearchMatches

Retrieves additional matches not included in the response to a prior CreateSearchRequest.

Request Fields

| | |
|--------------------------|---|
| searchId (string) | <p>The ID of the search which provided the supplied list of matching asset IDs. Any IDs in the list which were not supplied (i.e., matched by) this search will be silently rejected.</p> <p>This search must be owned by the requesting user.</p> <p>Length: 0 - 8</p> |
| matchingIds (string) | <p>List of IDs of matching assets to look up. This is typically a pass-around of Create- SearchSuccessData.remainingMatchingIds or an immediately-previous LookupSearchMatchesSuccessData.remainingMatchingIds.</p> <p>Length: 0 - 8</p> |

Response Fields

| | |
|--------------------------|--|
| searchId (string) | <p>ID of the search whose results were looked up (an echo back of LookupSearchMatchesOperation.searchId).</p> <p>Length: 0 - 8</p> |
| matches | <p>Detailed information on matching assets specified in LookupSearchMatchesOperation.matchingIds.</p> <p>The number of detailed matches returned is limited to that specified in LookupSearchMatchesOperation.maxDetailedMatches.</p> <p>The detailed match information is supplied only for those matching asset IDs that are currently active at the time the LookupSearchMatchesRequest is processed. Assets from the matching ID list are checked until either enough are found to fulfill the specified</p> |

maximum number of matches, or the list is exhausted. It is possible that no currently-active matching assets will be found.

Therefore, if the client is always faithful to pass in an ID list resulting from `CreateSearchSuccessData.matchingIds` or `LookupSearchMatchesSuccessData.remainingMatchingIds`, it is guaranteed to always get back detailed match information on active assets in the sort order specified by the originating `CreateSearchRequest`. The client is, of course, free to tamper with the order of the IDs sent in on the `LookupSearchMatchesRequest` (and the resulting detailed match information will be in the same order as the IDs list). See `MatchingAsset`

`remainingMatchingIds` (string) This is a proper subset of the list of IDs of matching assets supplied in the `LookupSearchMatchesRequest`, less those returned in element `\detailedMatches` and less those that are now inactive or cannot be found or otherwise cannot be accessed by the requester. This provides the client with a pared-down list of matching IDs that can be submitted on subsequent `LookupSearchMatchesRequest(s)`. It is possible that there will be no remaining matching asset IDs.

Length: 0 - 8

LookupSearch

Lookup searches recently performed by the requester. The results can be used to perform additional searches.

"Recently" may depend on the requester's configuration and DAT policy, but in general usually means at least within the last 24 hours.

Request Fields

One of:

querySearchesBySearchIds Look up one or more searches by `SearchId`.

queryAllMySearches Look up all searches belonging to the requester.

queryAllMyGroupsSearches Look up all searches belonging to the requester or to other members of the requester's sharing group.

Response Fields

`searches` Details of the looked-up searches. See `Search`

`unreported` (string) To keep the payload size (and transmission time) reasonable, the number of searches returned is limited. For requesters with more searches, this element contains the IDs of those searches not reported in `\searches`.

Clients can then feed this element to a new `LookupSearchesRequest`, using `QuerySearchesBySearchIds`, repeating as necessary until "unreported" is no longer returned.

Length: 0 - 8

DeleteSearch

It is not a requirement that searches ever be explicitly deleted. Deletion is a convenience for applications that make heavy use of multi-search lookups (e.g. `LookupSearchOperation.queryAllMySearches`) so they can easily be excluded from lookups.

Request Fields

One of:

deleteSearchesBySearchIds Delete one or more searches by `SearchId(s)`.

deleteAllMySearches Delete all searches belonging to the requester.

deleteAllMyGroupsSearches Delete all searches belonging to the requester or to other members of the requester's sharing group.

Response Fields

No content required or provided

CountAssets

The `CountAssets` request is functionally identical to the `CreateSearch` request, with two important differences:

1. The response contains only a count of matching assets, and does not include details on any of the matches.
2. The search record is not stored, so you cannot subsequently look up or delete the search (i.e. there are no analogues to `LookupSearchRequest` or `DeleteSearchRequest`).

`CountAssetsRequest` is expected to be used for research and analytic activities, rather than active freight-matching. High search volumes are normal, but the total search volume will generally be limited on a daily, weekly, or monthly basis by subscription levels. Please contact your salesperson if you need to increase your subscription level to raise your search quotas.

Request Fields

criteria The criteria to be used for this search. See `SearchCriteria`

Response Fields

count (int) The total number of matches found.

Valid Values: 0 -

Carrier Monitoring

Requests related to carrier monitoring, including access to the insurance information and certificates maintained by DAT's CarrierWatch product.

LookupCarrier

Look up insurance and DOT information about a carrier from DAT's CarrierWatch system.

Request Fields

version (decimal) Deprecated and no longer used.

One of:

userId (int) The UserId of a user belonging to the requested carrier. This UserId will normally be obtained from a matching asset returned from a search or alarm match.

Valid Values: 0 -

docket The docket prefix and number of the requested carrier (e.g. MC number, FF number).

prefix (string) Docket Prefix. Not available in the first release.

Length: 0 - 2

number (int) Docket Number of the company.

Valid Values: 0 -

intrastate The intrastate code and state of the requested carrier.

intrastateState The state the carrier is authorized to operate within. See `StateProvince`

intrastateCode (string) The state's assigned operating code for this carrier.

Length: 0 - 15

mcNumber (int) The MC Number of the requested carrier. Note that MC number lookup is also available through the docket option. This option is retained for ease of use and backwards compatibility.

Valid Values: 0 -

dotNumber (int) The DOT Number of the requested carrier.

Valid Values: 0 -

includeDotAuthority (boolean) Specifies whether the response should include DOT Authority information.

includeDotInsurance (boolean) Specifies whether the response should include DOT Active / Pending insurance information.

| | |
|---|--|
| <code>includeInsuranceCertificates</code> (boolean) | Specifies whether the response should include the company's insurance certificate information maintained by DAT. Note: Insurance certificate information is only available with premium CarrierWatch subscriptions. If you wish to upgrade, please contact your account representative. |
| <code>includeFmcsaSafetyRating</code> (boolean) | Specifies whether the response should include FMCSA Safety information. |
| <code>includeFmcsaInspections</code> (boolean) | Specifies whether the response should include FMCSA inspection information. |
| <code>includeFmcsaCrashes</code> (boolean) | Specifies whether the response should include FMCSA crash information. |
| <code>includeFmcsaSafeStat</code> (boolean) | Specifies whether the response should include FMCSA SafeStat information. |
| <code>includeCsa2010SafetyFitness</code> (boolean) | Specifies whether the response should include CSA 2010 safety fitness data. |
| <code>includeCsa2010Basic</code> (boolean) | Specifies whether the response should include CSA 2010 basic measurement data. |
| <code>includeDotProfile</code> (boolean) | Specifies whether the response should include the carrier's DOT Profile. |
| <code>includeExtendedProfile</code> (boolean) | Specifies whether the response should include the 'extended' profile information maintained by DAT. |

Response Fields

| | |
|---------------------------------|--|
| <code>header</code> | Basic information maintained by DOT about the carrier. Note that there are (hopefully rare) cases in which the DOT does not provide DAT with even this basic information, in which case this element will be omitted. |
| <code>tcoreId</code> (long) | DAT's own carrier identifier |
| <code>legalName</code> (string) | Best available legal business name. Length: 0 - 155 |
| <code>dbaName</code> (string) | Best available commonly used business name. Length: 0 - 155 |

| | |
|--------------------------------|--|
| dotNumber (int) | DOT Identification Number of the carrier. Valid Values: 0 - |
| docket | |
| prefix (string) | Docket Prefix. Not available in the first release. Length: 0 - 2 |
| number (int) | Docket Number of the company. Valid Values: 0 - |
| intrastate | |
| intrastateState | The state the carrier is authorized to operate within. See <code>StateProvince</code> |
| intrastateCode (string) | The state's assigned operating code for this carrier. Length: 0 - 15 |
| duns (int) | DUNS Number, when available. Valid Values: 0 - |
| scac (string) | When available, the Standard Carrier Alpha Code (SCAC) is a unique code used to identify transportation companies. Length: 0 - 4 |
| physicalLocation | The best and last available physical address. |
| phone | Best available phone number corresponding to the address. See <code>PhoneNumber</code> |
| tollFreePhone | Best available toll-free phone number corresponding to the address. See <code>PhoneNumber</code> |
| fax | Best available Fax number corresponding to the address. See <code>PhoneNumber</code> |
| street (string) | Street refers to a street name, which is an identifying name given to a street. The street name forms part of the address. It's a String with 0-200 characters. Length: 0 - 200 |
| city (string) | City refers to a city name, which is a relatively large and permanent settlement. It's a String with 0-50 characters. Length: 0 - 50 |
| stateProvince | The DOT does not always supply a state, particularly for carriers located in Mexico. See <code>StateProvince</code> |

| | |
|----------------------------|---|
| postalCode (string) | <p>North American Postal Codes:</p> <p>Canada: LNL NLN</p> <p>Mexico: NNNNN</p> <p>US ZIP: NNNNN(-NNNN)</p> <p>The DOT does not always supply a postal code, particularly for carriers located in Mexico.</p> <p>Length: 5 - 10</p> |
| countryCode | <p>Based on two-letter ISO 3166 country codes for countries supported by DAT. This is a 2-character String.</p> <p>Valid Values: US, CA, MX</p> |
| mailingLocation | The best and last available mailing address. |
| phone | Best available phone number corresponding to the address. See PhoneNumber |
| tollFreePhone | Best available toll-free phone number corresponding to the address. See PhoneNumber |
| fax | Best available Fax number corresponding to the address. See PhoneNumber |
| street (string) | <p>Street refers to a street name, which is an identifying name given to a street. The street name forms part of the address. It's a String with 0-200 characters.</p> <p>Length: 0 - 200</p> |
| city (string) | <p>City refers to a city name, which is a relatively large and permanent settlement. It's a String with 0-50 characters.</p> <p>Length: 0 - 50</p> |
| stateProvince | The DOT does not always supply a state, particularly for carriers located in Mexico. See StateProvince |
| postalCode (string) | <p>North American Postal Codes</p> <p>Canada: LNL NLN</p> <p>Mexico: NNNNN</p> <p>US ZIP: NNNNN(-NNNN)</p> <p>The DOT does not always supply a postal code, particularly for carriers located in Mexico.</p> <p>Length: 5 - 10</p> |

| | |
|--|--|
| countryCode | Based on two-letter ISO 3166 country codes for countries supported by DAT. This is a 2-character String. Valid Values: US, CA, MX |
| dotProfile | Provides the operation details of a carrier available at DOT. |
| lastUpdateOfDotProfile (dateTime) | The last date on which the DOT updated their profile for this carrier. |
| isActive (boolean) | Indicates whether or not the carrier is still operating or not. If not, no other data will be provided in this section. |
| entityType (string) | The DOT classification for the type of company this is. <ul style="list-style-type: none"> ○ Carrier ○ Shipper ○ Registrant ○ Carrier & Shipper Abnormal values may be: <ul style="list-style-type: none"> ○ Intermodal Equipment Provider ○ New Entrant Status Length: 0 - 30 |
| operationType (string) | Identifies the carrier as being engaged in interstate, intrastate hazardous material, or intrastate non-hazardous material transport activities. <ul style="list-style-type: none"> ○ Interstate ○ Intrastate Only (HM) ○ Intrastate Only (Non-HM) Length: 0 -- 25 |
| outOfInterstateServiceDate (date) | The date the carrier went out of Interstate service. Only provided if the carrier is out of service. |
| powerUnits (int) | The number of power units operated by the carrier. Valid Values: 0 - |
| drivers (int) | The number of drivers employed and contracted by the carrier. Valid Values: 0 - |
| mcs150Mileage | |

| | |
|---|---|
| mileageYear (int) | Mileage year from the MCS-150 Registration Form. Valid Values: 0 - |
| formDate (date) | Date from the MCS-150 Registration Form. |
| mileage (long) | Mileage from the MCS-150 Registration Form. |
| mileageYear (int) | Mileage year from the MCS-150 Registration Form. Valid Values: 0 - |
| formDate (date) | Date from the MCS-150 Registration Form. |
| mileage (long) | Mileage from the MCS-150 Registration Form. |
| commodities | Commodities handled by the carrier. Valid Values: General Freight, Household Goods, Metals: sheets, coils, rolls, Motor Vehicles, Fresh Produce, Liquids/Gases, Oilfield Equipment, Livestock, Chemicals, Dry Bulk, Refrigerated Food, Beverages, Logs, Poles, Beams, Lumber, Building Materials, Mobile Homes, Machinery, Large Objects, Grain, Feed Hay, Coal/Coke, Meat, Garbage/Refuse, Paper Products, Utilities, Agricultural/Farm Supplies, Construction, Drive/Tow away, Intermodal Cont., Passengers, US Mail, Water Well |
| specialCommodities (string) | Free form text containing a description of commodities not covered in the standard DOT commodity list. Length: 0 - 256 |
| dotAuthority | Included only if the 'includeDotAuthority' ag is specified. This section describes the common, contract and broker authority status of the target carrier. If the 'includeDotAuthority' ag was specified and this element is not included in the response, then the carrier is not authorized. |
| lastUpdateOfDotAuthority | The last date on which the DOT updated their authority (dateTime) information for this carrier. |
| commonAuthority | Common authority for the carrier. Valid Values: Active, Inactive, None |
| pendingCommonAuthority (boolean) | Indicates whether or not common authority is pending. |
| revokedCommonAuthority (boolean) | Indicates whether or not common authority may be revoked in the near future. |

| | |
|------------------------------------|--|
| contractAuthority | Contract authority for the carrier. Valid Values: Active, Inactive, None |
| pendingContractAuthority (boolean) | Indicates whether or not contract authority is pending. |
| revokedContractAuthority (boolean) | Indicates whether or not contract authority may be revoked in the near future. |
| brokerAuthority | Broker authority for the carrier. Valid Values: Active, Inactive, None |
| pendingBrokerAuthority (boolean) | Indicates whether or not broker authority is pending. |
| revokedBrokerAuthority (boolean) | Indicates whether or not broker authority may be revoked in the near future. |
| carriesFreight (boolean) | Indicates whether or not the carrier is authorized for freight. |
| carriesPassengers (boolean) | Indicates whether or not the carrier is authorized to carry passengers. |
| carriesHhg (boolean) | Indicates whether or not the carrier is authorized to carry household goods. |
| bipdRequired (int) | The amount of BIPD coverage this carrier is required to have. Valid Values: 0 - |
| cargoRequired (boolean) | Indicates whether this carrier is required to file form BMC-34 showing evidence of cargo coverage. |
| bondSuretyRequired (boolean) | Indicates whether this carrier is required to file form BMC-84 or 85 showing evidence of a broker bond or equivalent trust fund. |
| bipdOnFile (int) | The amount of BIPD coverage on file. Coverage details will be available in the active/pending insurance section. Valid Values: 0 - |
| cargoOnFile (boolean) | Indicates whether this carrier has filed form BMC-34 showing evidence of cargo coverage. |
| bondOnFile (boolean) | Indicates whether this carrier has also filed form BMC-84 or 85 showing evidence of a broker bond or trust fund. If true, coverage details will be in the active/pending insurance section. |
| dotInsurance | Describes a type of insurance carried by this carrier. An element will be included for each of the insurance types carried by the carrier. |

Included only if 'includeDotInsurance' is specified.

lastUpdateOfDotInsurance (Date and Time)

The last date on which the DOT's insurance records for this carrier were updated.

insuranceRecord

The DOT insurance records provided by the DOT.

coverageType

BIPD, Cargo, Trust, or Bond

Valid Values: BIPD, Cargo, Bond, Trust

BipdClass

If insuranceType = BIPD this element indicates whether the following coverage details are for primary coverage or excess coverage.

For other insurance types, this element will be omitted.

Valid Values: Primary, Cargo, Excess

formCode (string)

34 = Cargo 91,91X = BIPD 82 = BIPD (Surety Bond) 83 = Cargo (Surety Bond) 84 = Property Brokers Surety Bond 85 = Property Brokers Trust Fund Agreement

Length: 0 - 3

policyNumber (string)

The insurance policy number.

Length: 0 - 40

coverageFrom (int)

Indicates the lower limit of the coverage. Usually zero except for Excess BIPD insurance.

Valid Values: 0 -

coverageTo (int)

Indicates the upper limit of the coverage.

Valid Values: 0 -

effectiveDate (date)

Date this insurance policy became effective.

canceledDate (date)

Date this insurance policy was canceled.

insuranceCarrier

The contact information for the insurance carrier.

id (int)

A unique identifier provided by Volpe.

Valid Values: 0 -

companyName (string)

Insurance company name.

Length: 0 - 55

contact (string)

Insurance company contact name.

Length: 0 - 55

location

Insurance company address.

Note that there are instances of incorrect registration data, in which the postal code is not of the proper format for the designated country code.

| | |
|-----------------------------|---|
| phone | Best available phone number corresponding to the address. See <code>PhoneNumber</code> |
| tollFreePhone | Best available toll-free phone number corresponding to the address. See <code>PhoneNumber</code> |
| fax | Best available Fax number corresponding to the address. See <code>PhoneNumber</code> |
| street (string) | Street refers to a street name, which is an identifying name given to a street. The street name forms part of the address. It's a String with 0-200 characters. Length: 0 - 200 |
| city (string) | City refers to a city name, which is a relatively large and permanent settlement. It's a String with 0-50 characters. Length: 0 - 50 |
| stateProvince | The DOT does not always supply a state, particularly for carriers located in Mexico. See <code>StateProvince</code> |
| postalCode (string) | North American Postal Codes: Canada: LNL NLN Mexico: NNNNN US ZIP: NNNNN(-NNNN) The DOT does not always supply a postal code, particularly for carriers located in Mexico. Length: 5 -- 10 |
| countryCode | Based on two-letter ISO 3166 country codes for countries supported by DAT. This is a 2-character String. Valid Values: <code>US</code> , <code>CA</code> , <code>MX</code> |
| id (int) | A unique identifier provided by Volpe. Valid Values: 0 - |
| companyName (string) | Insurance company name. Length: 0 - 55 |
| contact (string) | Insurance company contact name. Length: 0 - 55 |
| location | Insurance company address. |

Note that there are instances of incorrect registration data, in which the postal code is not of the proper format for the designated country code.

| | |
|----------------------------|--|
| phone | Best available phone number corresponding to the address. See <code>PhoneNumber</code> |
| tollFreePhone | Best available toll-free phone number corresponding to the address. See <code>PhoneNumber</code> |
| fax | Best available Fax number corresponding to the address. See <code>PhoneNumber</code> |
| street (string) | Street refers to a street name, which is an identifying name given to a street. The street name forms part of the address. It's a String with 0-200 characters. Length: 0 - 200 |
| city (string) | City refers to a city name, which is a relatively large and permanent settlement. It's a String with 0-50 characters. Length: 0 - 50 |
| stateProvince | The DOT does not always supply a state, particularly for carriers located in Mexico. See <code>StateProvince</code> |
| postalCode (string) | North American Postal Codes: Canada: LNL NLN Mexico: NNNNN US ZIP: NNNNN(-NNNN) The DOT does not always supply a postal code, particularly for carriers located in Mexico. Length: 5 - 10 |
| countryCode | Based on two-letter ISO 3166 country codes for countries supported by DAT. This is a 2-character String. Valid Values: <code>US</code> , <code>CA</code> , <code>MX</code> |

One of:

| | |
|--|---|
| insuranceCertificates | Provides details on each insurance certificate carried by the carrier. |
| lastUpdateOfInsuranceCertificates (Date/Time) | The last date on which the insurance certificate for this carrier was updated |
| maxCargoLimit amount (double) | The maximum coverage limit in the cargo insurance. |

currency

| | |
|---|--|
| coverage | Describes cargo coverage carried by the carrier. |
| coverageCategory (string) | <p>The type of category this certificate falls under: CARGO, AUTO, GENERAL, WORKERS COMP, or OTHER. OTHER may occur multiple times, but the others will occur only once.</p> <p>Length: 0 - 20</p> |
| coverageType (string) | <p>The full name provided by the insurance company that describes the type of coverage.</p> <p>Length: 0 - 90</p> |
| effectiveDate (date) | The date on which this policy went into or is going into effect. |
| expirationDate (date) | The date on which this policy will expire. |
| canceledDate (date) | The date on which this policy will be canceled. |
| confidence (string) | <p>High or Low. The confidence level that the DAT will be informed promptly of any changes to this policy by the insurance carrier.</p> <p>Length: 0 - 4</p> |
| policyNumber (string) | <p>The policy number of the policy.</p> <p>Length: 0 - 90</p> |
| agentName (string) | <p>Issuing insurance agent.</p> <p>Length: 0 - 90</p> |
| agentPhone | Contact number of the insurance agent. See <code>PhoneNumber</code> |
| agentFax | Fax number of the insurance agent. See <code>PhoneNumber</code> |
| underwriter (string) | <p>The company that is underwriting the policy.</p> <p>Length: 0 - 90</p> |
| coverageld (long) | Deprecated. This field is no longer used. |
| certificateld (long) | Deprecated. This field is no longer used. |
| lastCertificateUpdate (dateTime) | <p>The last date on which this certificate was updated.</p> |
| isScheduledAuto (boolean) | Indicates if this certificate represents scheduled autos. This field is only provided for AUTO coverage categories. |
| coverageDescription (string) | <p>A verbal description of the details on this certificate.</p> <p>Length: 0 - 100</p> |

| | |
|---|--|
| insuranceCertificateImageUrl (any URI) | A link to the image of the insurance certificate. Note: In some cases, DAT may have insurance certificate information but not an image of the certificate. |
| coverageLimit | Describes the limits on the coverage |
| type (string) | Free-form description of a limit on the coverage Length: 0 - 90 |
| limit | Coverage limit (in US or Canadian dollars). |
| amount (double) | |
| currency | |
| type (string) | Free-form description of a limit on the coverage Length: 0 - 90 |
| limit | Coverage limit (in US or Canadian dollars). |
| amount (double) | |
| currency | |
| insuranceCertificateWarning | Returned if no insurance certificates were on file for the requested carrier. The lack of insurance certificates should not be interpreted as a negative mark on the carrier. To request that DAT begin monitoring insurance on a carrier, see <code>MonitorInsuranceRequest</code> . |
| code (int) | |
| faultCode | |
| name (string) | |
| message (string) | Message provides a detailed description of the fault. It is intended to clarify the more general information indicated by the code Length: 0 - 1024 |
| detailedMessage (string) | |
| safestat | Describes FMCSA-maintained safety data. Included only if 'includeSafestat' is specified and if DAT has current FMCSA SafeStat data on the specified company. Describes the carrier's most recent safety evaluations scores from the FMCSA SafeStat system. For more information regarding the source of this information go to http://ai.fmcsa.dot.gov/SafeStat . |

lastUpdateOfSafeStat (dateTime)

The date of the most recent SafeStat update. All numbers provided in this section are accurate as of this date.

Safestat recalculates SEA Values every month.

seaDriver (float)

Most recent SEA Driver score for this carrier provided by SafeStat. Ranges from 0 (best) to 100 (worst). Expect 2 decimal places. A SEA with a value from 75 to 100 is defined as deficient.

This element will be omitted if the score is 0.

seaVehicle (float)

Most recent SEA Vehicle score for this carrier provided by SafeStat. Ranges from 0 (best) to 100 (worst). Expect 2 decimal places. A SEA with a value from 75 to 100 is defined as deficient.

This element will be omitted if the score is 0.

seaManagement (float)

Most current SEA Management score for this carrier provided by SafeStat. SEA values range from 0 (best) to 100 (worst). Expect 2 decimal places. A SEA with a value from 75 to 100 is defined as deficient.

This element will be omitted if the score is 0.

safetyRating

Describes FMCSA-maintained safety data.

Included only if the 'includeSafetyRating' ag is specified and if DAT has current FMCSA Safety data on the specified company.

Describes the carrier's most recent safety rating from the FMCSA. For more information regarding the source of this information go to <http://safer.fmcsa.dot.gov/saferhelp.aspx#SafetyRating>

lastUpdateOfSafety (dateTime)

Date of the most recent FMCSA safety rating.

rating (string)

Most recent FMCSA Rating. If this element is not included, no safety record was found.

Note: there are a very large number of carriers that do not have a safety rating. Lack of a safety rating should not be construed as a negative mark against the carrier.

Length: 0 - 15

ratingDate (date)

The date the rating was assigned.

reviewType (string)

Indicates the type of review that resulted in the most recent rating. For more detailed information regarding the reviews go to <http://safer.fmcsa.dot.gov/saferhelp.aspx#SafetyRating>

Length: 0 - 40

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| reviewDate (date) | The date on which the review occurred. |
| fmcsaInspections | <p>Describes FMCSA-maintained crash and inspection data.</p> <p>Included only if 'includeFmcsaCrashInspection' is specified and if DAT has current FMCSA Crash/Inspection data on the specified company.</p> <p>Describes the carrier's crash and inspection record over the last 24 months. For more information regarding the source of this information go to http://safer.fmcsa.dot.gov/saferhelp.aspx#Inspection</p> |
| lastUpdateOfInspections (dateTime) | Date of the most recent FMCSA inspection data. |
| totalInspections (int) | <p>Total number of inspections for this carrier in the last 24 months. May be less than the sum of vehicle, driver, and hazmat inspections.</p> <p>Valid Values: 0 -</p> |
| vehicleInspections | <p>Vehicle inspections for this carrier in the last 24 months.</p> <p>Levels 1+2+5.</p> |
| Inspections (int) | <p>Total number of inspections.</p> <p>Valid Values: 0 -</p> |
| outOfService (int) | <p>Number of those inspections for which the driver or vehicle was pulled out of service.</p> <p>Valid Values: 0 -</p> |
| driverInspections | <p>Driver inspections for this carrier in the last 24 months.</p> <p>Levels 1+2+3.</p> |
| inspections (int) | <p>Total number of inspections.</p> <p>Valid Values: 0 -</p> |
| outOfService (int) | <p>Number of those inspections for which the driver or vehicle was pulled out of service.</p> <p>Valid Values: 0 -</p> |
| hazmatInspections | <p>Hazmat inspections for this carrier in the last 24 months.</p> <p>Levels 1+2+3+4+5 when HazMat is present.</p> |
| inspections (int) | <p>Total number of inspections.</p> <p>Valid Values: 0 -</p> |
| outOfService (int) | <p>Number of those inspections for which the driver or vehicle was pulled out of service.</p> <p>Valid Values: 0 -</p> |

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| fmcsaCrashes | <p>Describes FMCSA-maintained crash and inspection data.</p> <p>Included only if 'includeFmcsaCrashInspection' is specified and if DAT has current FMCSA Crash/Inspection data on the specified company.</p> <p>Describes the carrier's crash and inspection record over the last 24 months. For more information regarding the source of this information go to http://safer.fmcsa.dot.gov/saferhelp.aspx#Inspection</p> |
| lastUpdateOfCrashes (dateTime) | <p>Date of the most recent FMCSA inspection data.</p> |
| crashesFatal (int) | <p>Number of crashes for this carrier in the last 24 months that resulted in a fatality. May not be provided after CSA2010. May only provide crashesFatalOrInjury.</p> <p>Valid Values: 0 -</p> |
| crashesInjury (int) | <p>Number of crashes for this carrier in the last 24 months that resulted in an injury. May not be provided after CSA2010. May only provide crashesFatalOrInjury.</p> <p>Valid Values: 0 -</p> |
| One of: | |
| crashesFatalOrInjury (int) | <p>Number of crashes for this carrier in the last 24 months that resulted in an injury or a fatality.</p> <p>Valid Values: 0 -</p> |
| crashesTow (int) | <p>Number of crashes for this carrier in the last 24 months that resulted in the vehicle being towed.</p> <p>Valid Values: 0 -</p> |
| crashesHazmat (int) | <p>Number of crashes for this carrier in the last 24 months that involved hazardous materials.</p> <p>Valid Values: 0 -</p> |
| csa2010SafetyFitness | <p>CSA 2010 Safety Fitness data.</p> <p>Included only if includeCsa2010SafetyFitness is specified and if DAT has current CSA 2010 data on the specified company.</p> |
| lastUpdateOfCsa2010SafetyFitness (dateTime) | <p>The last date on which the Csa 2010 Safety Fitness was updated.</p> |
| interventionActivity (string) | <p>Text describing CSA 2010 intervention activity on the carrier.</p> <p>Length: 0 - 256</p> |

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| safetyFitnessDetermination (string) | <p>This will replace safety ratings and is calculated by FMCSA using the basic scores.</p> <p>Length: 0 - 20</p> |
| csa2010Basic | <p>CSA 2010 Basic Measurement data.</p> <p>Included only if the includeCsa2010Basic ag is specified and if DAT has current CSA 2010 data on the specified company.</p> |
| lastUpdateOfCsa2010Basics (dateTime) | The last date on which the Csa 2010 Basic Measurements was updated. |
| insuranceOrOtherViolation (boolean) | Insurance/Other BASIC Serious Violation Indicator (true = Serious Violation from investigation within previous 12 months) |
| insuranceOrOtherIndicator (boolean) | Insurance/Other BASIC Indicator (true = Serious Violation within previous 12 months) |
| measurement | The basic carrier safety measurements. |
| basic (string) | <p>The types of FMCSA measurements: 'Unsafe Driving', 'Fatigued Driving', 'Driver Fitness', 'Controlled Substance and Alcohol', 'Vehicle Maintenance', or 'Cargo Related'. If no data is available for a type, that type will not be provided.</p> <p>Length: 0 - 40</p> |
| measure (float) | The decimal measurement for the type, with 2 places after the decimal. |
| percentile (float) | The percentile for the type, with 1 place after the decimal. |
| numberOfInspections (int) | <p>The number of inspections resulting in violation of the basic.</p> <p>Valid Values: 0 -</p> |
| roadsideAlert (boolean) | BASIC Roadside Performance Over Threshold Indicator (Over Intervention Threshold) |
| seriousViolationIndicator (boolean) | BASIC Serious Violation Indicator (Serious Violation within previous 12 months) threshold and/or Serious Violation within previous 12 months) |
| basicIndicator (Boolean) | BASIC Indicator (Roadside Performance Percentile over threshold and/or Serious Violation within previous 12 months) |
| basic (string) | <p>The types of FMCSA measurements: 'Unsafe Driving', 'Fatigued Driving', 'Driver Fitness', 'Controlled Substance and Alcohol', 'Vehicle Maintenance', or 'Cargo Related'. If no data is available for a type, that type will not be provided.</p> |

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| | Length: 0 - 40 |
| measure (float) | The decimal measurement for the type, with 2 places after the decimal. |
| | percentile (float) The percentile for the type, with 1 place after the decimal. |
| numberOfInspections (int) | The number of inspections resulting in violation of the basic. |
| | Valid Values: 0 - |
| roadsideAlert (boolean) | BASIC Roadside Performance Over Threshold Indicator (Over Intervention Threshold) |
| seriousViolationIndicator (boolean) | BASIC Serious Violation Indicator (Serious Violation within previous 12 months) |
| basicIndicator (boolean) | BASIC Indicator (Roadside Performance Percentile over threshold and/or Serious Violation within previous 12 months) |
| extendedProfile | Additional data collected from the carrier by DAT. Included only if includeExtendedProfile is specified. |
| lastUpdateOfExtendedProfile (dateTime) | The date of the most recent update to the extended profile. |
| companyBackground | Provides general information about the carrier. This element will be included when selected in the customer's options. |
| principle (string) | The name of the owner, CEO, or chief officer of the company. Length: 0 - 50 |
| principalTitle (string) | Title of the principal of the company. Length: 0 - 30 |
| primaryContact (string) | Name of the first person you should contact in the company. Length: 0 - 50 |
| phone | Name of the first person you should contact in the company. See <code>PhoneNumber</code> |
| fax | Name of the first person you should contact in the company. See <code>PhoneNumber</code> |
| emailAddress (string) | Contact email address. Length: 0 - 256 |
| website (anyURI) | Company website URL. |

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| yearFounded (int) | Year the company was founded. Valid Values: 0 - |
| isWomanOwned (boolean) | Indicates that the company is owned by a woman. False if omitted. |
| isMinorityOwned (boolean) | Indicates that the company is owned by a minority. False if omitted. |
| principle (string) | The name of the owner, CEO, or chief officer of the company. Length: 0 - 50 |
| principalTitle (string) | Title of the principal of the company. Length: 0 - 30 |
| primaryContact (string) | Name of the first person you should contact in the company. Length: 0 - 50 |
| phone | Name of the first person you should contact in the company. See <code>PhoneNumber</code> |
| fax | Name of the first person you should contact in the company. See <code>PhoneNumber</code> |
| emailAddress (string) | Contact email address. Length: 0 - 256 |
| website (anyURI) | Company website URL |
| yearFounded (int) | Year the company was founded. Valid Values: 0 - |
| isWomanOwned (boolean) | Indicates that the company is owned by a woman. False if omitted. |
| isMinorityOwned (boolean) | Indicates that the company is owned by a minority. False if omitted. |
| fleet | Describes the equipment and personnel of the carrier. This element will be included when selected in the customer's options |
| satelliteTracking (string) | The type of satellite tracking the carrier has. Length: 0 - 15 |
| numberOfTeams (int) | The number of driver teams the company has. Valid Values: 0 - |
| hasXWideVans (boolean) | False if omitted. |

hasXLongVans (boolean) False if omitted.

hasXLongFlats (boolean) False if omitted.

hasXLongReefers (boolean)
False if omitted.

hasFreezerReefers (boolean)
False if omitted.

hasRefrigeratedOnlyReefers (boolean)
False if omitted.

insuranceCoversAllDrivers (boolean)
False if omitted.

insuranceCoversAllTrucks (boolean)
False if omitted.

truck Identifies how many of each type of truck a carrier has.

code (int) The DAT numeric identifier for this truck.
Valid Values: 0 -

type (string) Textual description of the truck.
Length: 0 - 30

numberOf (int) The number of this type of truck.
Valid Values: 0 -

satelliteTracking (string) The type of satellite tracking the carrier has.
Length: 0 - 15

numberOfTeams (int) The number of driver teams the company has.
Valid Values: 0 -

hasXWideVans (boolean) False if omitted.

hasXLongVans (boolean) False if omitted.

hasXLongFlats (boolean) False if omitted.

hasXLongReefers (boolean)
False if omitted.

hasFreezerReefers (boolean)
False if omitted.

hasRefrigeratedOnlyReefers (boolean)
False if omitted.

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|-------------------------------------|---|
| insuranceCoversAllDrivers (boolean) | False if omitted. |
| insuranceCoversAllTrucks (boolean) | False if omitted. |
| truck | Identifies how many of each type of truck a carrier has. |
| code (int) | The DAT numeric identifier for this truck. Valid Values: 0 - |
| type (string) | Textual description of the truck. Length: 0 - 30 |
| numberOf (int) | The number of this type of truck. Valid Values: 0 - |
| code (int) | The DAT numeric identifier for this truck. Valid Values: 0 - |
| type (string) | Textual description of the truck. Length: 0 - 30 |
| numberOf (int) | The number of this type of truck. Valid Values: 0 - |
| services | Data on services provided by the carrier. Provided when Services is selected. |
| specialServices (string) | Free form text description of any special services provided. Length: 0 - 256 |
| handlesOverweightLoads (boolean) | Indicates if carrier can handle overweight loads. False if omitted. |
| handlesLongLoads (boolean) | Indicates if carrier can handle extra-long loads. False if omitted. |
| handlesWideLoads (boolean) | Indicates if carrier can handle extra wide loads. False if omitted. |
| handlesEdi (boolean) | Indicates if carrier can handle EDI. False if omitted. |
| isResponsibleCare (boolean) | Indicates if the carrier is a responsible care carrier. False if omitted. |
| hasGarmentHanging (boolean) | Indicates if the carrier has garment hanging. False if omitted. |

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| hasSpottedTrailers (boolean) | Indicates if the carrier has spotted trailers. False if omitted. |
| doesTrailerExchange (boolean) | Indicates if the carrier does trailer exchange. False if omitted. |
| doesPalletExchange (boolean) | Indicates if the carrier does pallet exchange. False if omitted. |
| doesDrayage (boolean) | Indicates if the carrier provides drayage service. False if omitted. |
| doesWarehousing (boolean) | Indicates if the carrier has warehousing. False if omitted. |
| doesLTL (boolean) | Indicates if the carrier has LTL. False if omitted. |
| doesMultiStops (boolean) | Indicates if the carrier will make multiple stops. False if omitted. |
| doesParcels (boolean) | Indicates if the carrier deals with Parcels. False if omitted. |
| carriesAlcohol (boolean) | Indicates if the carrier hauls Alcohol. False if omitted. |
| carriesCigarettes (boolean) | Indicates if the carrier hauls Cigarettes. False if omitted. |
| carriesElectronics (boolean) | Indicates if the carrier hauls Electronics. False if omitted. |
| carriesAmmunitionExplosives (boolean) | Indicates if the carrier hauls Ammunition or Explosives. False if omitted. |
| carriesCosmetics (boolean) | Indicates if the carrier hauls Cosmetics. False if omitted. |
| carriesGarments (boolean) | Indicates if the carrier hauls Cosmetics. False if omitted. |
| carriesHazmat (boolean) | Indicates if carrier can handle Hazardous Materials. |
| specialServices (string) | Free form text description of any special services provided. Length: 0 - 256 |
| handlesOverweightLoads (boolean) | Indicates if carrier can handle overweight loads. False if omitted. |
| handlesLongLoads (boolean) | Indicates if carrier can handle extra-long loads. False if omitted. |
| handlesWideLoads (boolean) | Indicates if carrier can handle extra wide loads. False if omitted. |
| handlesEdi (boolean) | Indicates if carrier can handle EDI. False if omitted. |

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| isResponsibleCare (boolean) | Indicates if the carrier is a responsible care carrier. False if omitted. |
| hasGarmentHanging (boolean) | Indicates if the carrier has garment hanging. False if omitted. |
| hasSpottedTrailers (boolean) | Indicates if the carrier has spotted trailers. False if omitted. |
| doesTrailerExchange (boolean) | Indicates if the carrier does trailer exchange. False if omitted. |
| doesPalletExchange (boolean) | Indicates if the carrier does pallet exchange. False if omitted. |
| doesDrayage (boolean) | Indicates if the carrier provides drayage service. False if omitted. |
| doesWarehousing (boolean) | Indicates if the carrier has warehousing. False if omitted. |
| doesLTL (boolean) | Indicates if the carrier has LTL. False if omitted. |
| doesMultiStops (boolean) | Indicates if the carrier will make multiple stops. False if omitted. |
| doesParcels (boolean) | Indicates if the carrier deals with Parcels. False if omitted. |
| carriesAlcohol (boolean) | Indicates if the carrier hauls Alcohol. False if omitted. |
| carriesCigarettes (boolean) | Indicates if the carrier hauls Cigarettes. False if omitted. |
| carriesElectronics (boolean) | Indicates if the carrier hauls Electronics. False if omitted. |
| carriesAmmunitionExplosives (boolean) | Indicates if the carrier hauls Ammunition or Explosives. False if omitted. |
| carriesCosmetics (boolean) | Indicates if the carrier hauls Cosmetics. False if omitted. |
| carriesGarments (boolean) | Indicates if the carrier hauls Cosmetics. False if omitted. |
| carriesHazmat (boolean) | Indicates if carrier can handle Hazardous Materials. |
| territory | Identifies areas that the carrier operates within. |
| isCsaApproved (boolean) | Indicates if the carrier is CSA approved. False if omitted. |
| isFastCertified (boolean) | Indicates if the carrier is FAST certified. False if omitted. |
| serviceToMexico (boolean) | Indicates if carrier provides service to Mexico. False if omitted. |
| statesProvinces | The states and provinces that the carrier normally operates in. See <code>StateProvince</code> |
| lane | The lanes that a carrier normally operates within. |

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| origin | The starting point of the lane. |
| stateProvince | The state or province of the end point. See <code>StateProvince</code> |
| metroArea | If one is specified, the metropolitan area of the end point. |
| code (int) | The numeric code reserved for this metropolitan area. Valid Values: 0 - |
| name (string) | The name describing this metropolitan area. Length: 0 - 40 |
| code (int) | The numeric code reserved for this metropolitan area. Valid Values: 0 - |
| name (string) | The name describing this metropolitan area. Length: 0 - 40 |
| destination | The ending point of the lane. |
| stateProvince | The state or province of the end point. See <code>StateProvince</code> |
| metroArea | If one is specified, the metropolitan area of the end point. |
| code (int) | The numeric code reserved for this metropolitan area. Valid Values: 0 - |
| name (string) | The name describing this metropolitan area. Length: 0 - 40 |
| code (int) | The numeric code reserved for this metropolitan area. Valid Values: 0 - |
| name (string) | The name describing this metropolitan area. Length: 0 - 40 |

MonitorInsurance

Request that a carrier in the DAT CarrierWatch system be monitored for insurance information.

Request Fields

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| requesterName (string) | Requester's name. Length: 0 - 50 |
| requesterPhoneNumber | Requester's phone number. See <code>PhoneNumber</code> |

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| <code>requesterVendorId (int)</code> | <p>The ID that the TMS uses for the carrier. DAT's integrated customers have their own ID system for carriers and pass those IDs to DAT to map DAT's data to the desired entity in the TMS.</p> <p>The TMS might be able to grab this automatically based on context. However, if DAT have not previously received the Vendor ID, it might not be of use on DAT's side.</p> <p>Valid Values: 0 -</p> |
| loadingToday (boolean) | <p>Indicates a desire or plan to load the carrier today. If specified, this is considered a "Hot Request" with higher priority and shorter turn-around time (premium subscriptions only). If omitted or false, this request is treated as standard priority with approximately 48-hour turnaround.</p> <p>NOTE: This is designed only to be used for urgent situations, never as the default method for adding a carrier. If you plan to leverage this feature, you MUST discuss how you will utilize it in your TMS with DAT FIRST before beginning your implementation.</p> |
| <code>carrierDotNumber (nonNegativeInteger)</code> | DOT Number of the carrier. |
| <code>carrierDocketNumber</code> | Docket number of the carrier (e.g., MC, FF number). |
| <code>prefix (string)</code> | <p>Docket Prefix. Not available in the first release.</p> <p>Length: 0 - 2</p> |
| number (int) | <p>Docket Number of the company.</p> <p>Valid Values: 0 -</p> |
| <code>carrierIntrastateCode</code> | Intrastate identifier of the carrier. |
| intrastateState | The state the carrier is authorized to operate within. See <code>StateProvince</code> |
| intrastateCode (string) | <p>The state's assigned operating code for this carrier.</p> <p>Length: 0 - 15</p> |
| <code>comments (string)</code> | <p>Any additional pertinent information for the DAT representative.</p> <p>Length: 0 - 512</p> |

Response Fields

No content required or provided

CreateCarrier

Request that a carrier not yet in the DAT CarrierWatch system be added for the purposes of monitoring DOT and insurance information. DAT already monitors DOT information

on the vast majority of interstate carriers, so this request is primarily useful for intra-state carriers. If the requester is a premium CarrierWatch customer (with the ability to look up private insurance information), DAT will additionally begin monitoring private insurance information on the specified carrier (see also `MonitorInsuranceRequest`).

Request Fields

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| requesterName (string) | Requester's name. Length: 0 - 50 |
| requesterPhoneNumber | Requester's phone number. See <code>PhoneNumber</code> |
| requesterVendorId (int) | The ID that the TMS uses for the carrier. DAT's integrated customers have their own ID system for carriers and pass those IDs to DAT to map DAT's data to the right entity in the TMS. The TMS might be able to grab this automatically based on context. However, if DAT have not previously received the Vendor ID, it might not be of use on DAT's side. Valid Values: 0 - |
| loadingToday (boolean) | Indicates a desire or plan to load the carrier today. If specified, this is considered a "Hot Request" with higher priority and shorter turn-around time (premium subscriptions only). If omitted or false, this request is treated as standard priority with approximately 48-hour turnaround. NOTE: This is designed only to be used for urgent situations, never as the default method for adding a carrier. If you plan to leverage this feature, you MUST discuss how you will utilize it in your TMS with DAT FIRST before beginning your implementation. |
| carrierCompanyName (string) | Carrier's name. Length: 0 - 50 |
| carrierAddressLine1 (string) | Carrier's address. Length: 0 - 50 |
| carrierAddressLine2 (string) | Carrier's address details. Length: 0 - 50 |
| carrierCity (string) | Carrier's city. Length: 0 - 50 |
| carrierState | Carrier's state. See <code>StateProvince</code> |
| carrierZipCode (string) | Carrier's zip/postal code. |

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| | Length: 5 - 10 |
| carrierDotNumber (nonNegativeInteger) | Carrier's DOT number. |
| carrierDocketNumber | Enter at least one of the following, so DAT can identify the carrier: carrierMcNumber carrierIntrastateCode carrierDotNumber . |
| prefix (string) | Docket Prefix. Not available in the first release. Length: 0 - 2 |
| number (int) | Docket Number of the company. Valid Values: 0 - |
| carrierIntrastateCode | Carrier's intrastate identifier. |
| intrastateState | The state the carrier is authorized to operate within. See <code>StateProvince</code> |
| intrastateCode (string) | The state's assigned operating code for this carrier. Length: 0 - 15 |
| carrierContactName (string) | Primary contact at the carrier. Length: 0 - 50 |
| carrierPhoneNumber | Carrier's contact phone number. See <code>PhoneNumber</code> |
| carrierFaxNumber | Carrier's contact fax number. See <code>PhoneNumber</code> |
| comments (string) | Any additional pertinent information for the DAT representative. Length: 0 - 512 |

Response Fields

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| resultMessage (string) | Brief acknowledgement message. |
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Rating

Requests related to spot- and contract-market rates, provided by DAT's Truckload Rate Index suite of products.

LookupRate

Request spot-market and/or contract rate information for a lane, including estimated rate, range, and a numeric representation of DAT's confidence in that estimate.

Each rate requested will be credited against the pool of lookups associated with the user's Truckload Rate Index subscription.

Note that multiple `LookupRateOperations` can be submitted in a single `LookupRateRequest`, in batches of up to 50. If you need to request more than 50 lanes, please submit batches sequentially.

Request Fields

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| equipment | <p>Rates deal with broader groups of equipment than <code>EquipmentTypes</code> or <code>EquipmentClasses</code> used in Freight Matching, so the set of equipment categories is much smaller.</p> <p>Valid Values: <code>Vans</code>, <code>Flatbeds</code>, <code>Reefers</code></p> |
| origin | <p>The origin of the lane, specified using any of the standard API methods for describing locations.</p> <p>The choice of location specification method is generally less important for rating than for freight matching. We offer a variety of methods purely for convenience, but the method chosen will have no effect on rating accuracy. See <code>Place</code></p> |
| destination | <p>The destination of the lane. See the description of 'origin' above for further details. See <code>Place</code></p> |
| includeSpotRate (boolean) | <p>If true, the response will include DAT's spot rate estimate for the specified lane. This allows the requester to compare his rate with the spot market rate.</p> <p>Normally defaults to false if omitted. However, if <code>includeContractRate</code> is false or omitted, this element defaults to true - i.e., if neither <code>includeSpotRate</code> or <code>includeContractRate</code> is specified, the request is assumed to be for spot rate information. Additionally, if <code>includeMyRate</code> is true, the response will include the market spot rate estimate.</p> <p>If the requester is not authorized to look up spot rate information, an error will be returned.</p> |
| includeContractRate (boolean) | <p>If true, the response will include a contract rate estimate for the specified lane. Defaults to false.</p> <p>If the requester is not authorized to look up contract rate information, an error will be returned.</p> |
| includeMyRate (boolean) | <p>If true, the response will include the requester's spot rate information for the specified lane. This allows the requester to compare their company's own rate with the overall spot market rate. Note that this element implies <code>includeSpotRate</code> as well. If <code>includeMyRate</code> is true, the spot rate estimate will be returned as well.</p> <p>If the requester is not a lane rate data contributor, this element will be ignored.</p> |

Defaults to false.

Response Fields

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| spotRate | The spot market rate is returned if the includeSpotRate ag was specified on the request, or if no includeContractRate was false (i.e., by default, spot rate is returned, if no rate type was requested). |
| estimatedLinehaulRate (float) | The estimated per-mile rate. |
| lowLinehaulRate (float) | The low end of DAT's estimated per-mile rate range. In general, this is the rate defining the lowest quartile of rates. 25% of rates in the lane fall below this rate. |
| highLinehaulRate (float) | The high end of DAT's estimated per-mile rate range. In general, this is the rate defining the upper quartile of rates. 25% of rates fall above this rate. |
| estimatedLinehaulTotal (float) | <p>The estimated linehaul total. Note in general this will not equal estimatedLinehaulRate x mileage. The estimated total is obtained by averaging total rates in the lane for trips with similar mileage. The LinehaulTotal is generally more appropriate to use for short trips where minimums and hourly costs are more important than mileage in determining rates.</p> <p>The per mile total is obtained by averaging per mile rates in the lane for trips with similar mileage. Per mile is more appropriate for long haul rates where per mile costs are most important in setting rates.</p> |
| lowLinehaulTotal (float) | The low end of DAT's estimated total rate range. In general, this can be taken as the lower end of an approximately 50% confidence interval (although it may not always reflect an exact statistical confidence interval). |
| highLinehaulTotal (float) | The high end of DAT's estimated per-mile rate range. In general, this can be taken as the upper end of an approximately 50% confidence interval (although it may not always reflect an exact statistical confidence interval). |
| confidenceLevel (int) | <p>A quantitative description of DAT's confidence in the rate estimate provided. It ranges from 1 (highest) to 100 (lowest).</p> <p>This confidence is primarily derived from the amount of relevant data incorporated into the rate estimate. The confidence level incorporates factors such as:</p> <ul style="list-style-type: none">○ The number of recent rate submissions on the requested lane or on closely related lanes. |

- The size of the geographic areas DAT used to estimate the rate (e.g. postal prefix, market area, region).
- The size of confidence intervals around the estimated rate (e.g., the size of a 95% confidence interval, or of the (approximate) 50% confidence range described above).

Valid Values: 0 -

ratedLane

This is the lane that was actually used to compute the rate. It will denote the geographic region in which the requested origin and destination fall. See `RatedLane`

averageFuelSurchargeRate (float)

Average per-mile fuel surcharge for the lane, from the Department of Energy.

contributors (int)

The number of individual contributors to the lane data that were used to compute the rate. This element is provided as an additional means for a user to evaluate the significance of the rate estimate, but may be removed in the future as DAT's rating algorithms evolve to utilize data from outside specific market areas and to incorporate long-term patterns.

Valid Values: 0 -

moves (int)

The number of moves (i.e., contributed lane data) that were used to compute the rate. This element is provided as an additional means for a user to evaluate the significance of the rate estimate, but may be removed in the future as DAT's rating algorithms evolve to utilize data from outside specific market areas and to incorporate long-term patterns.

Valid Values: 0 -

daysBack (int)

The time period over which the rate was calculated. This element is provided as an additional means for a user to evaluate the significance of the rate estimate, but may be removed in the future as DAT's rating algorithms evolve to utilize data from outside specific market areas and to incorporate long-term patterns.

Valid Values: 0 -

yourRate

The requester's rate is only returned if: 1) The requester asked for it (via `LookupRateOperation.includeMyRate`) and 2) The requester is a contributor (i.e., belongs to a company which contributes rates to DAT) and 3) The requester's company has contributed enough pertinent data to create a statistically valid rate.

If the requester is not a contributor, no error is returned (this element is simply omitted).

The requester's rate will be based on the same lane as that used to generate the current rate, i.e., `spotRate.ratedLane`.

estimatedLinehaulRate (float)

The estimated per-mile rate.

lowLinehaulRate (float)

The low end of DAT's estimated per-mile rate range. In general, this is the rate defining the lowest quartile of rates. 25% of rates in the lane fall below this rate.

highLinehaulRate (float)

The high end of DAT's estimated per-mile rate range. In general, this is the rate defining the upper quartile of rates. 25% of rates fall above this rate.

estimatedLinehaulTotal (float)

The estimated linehaul total. Note in general this will not equal `estimatedLinehaulRate` x mileage. The estimated total is obtained by averaging total rates in the lane for trips with similar mileage. The `LinehaulTotal` is generally more appropriate to use for short trips where minimums and hourly costs are more important than mileage in determining rates.

The per mile total is obtained by averaging per mile rates in the lane for trips with similar mileage. Per mile is more appropriate for long haul rates where per mile costs are most important in setting rates.

lowLinehaulTotal (float) The low end of DAT's estimated total rate range. In general, this can be taken as the lower end of an approximately 50% confidence interval (although it may not always reflect an exact statistical confidence interval).

highLinehaulTotal (float) The high end of DAT's estimated per-mile rate range. In general, this can be taken as the upper end of an approximately 50% confidence interval (although it may not always reflect an exact statistical confidence interval).

confidenceLevel (int)

A quantitative description of DAT's confidence in the rate estimate provided. It ranges from 1 (highest) to 100 (lowest).

This confidence is primarily derived from the amount of relevant data incorporated into the rate estimate. The confidence level incorporates factors such as:

- The number of recent rate submissions on the requested lane or on closely related lanes.
- The size of the geographic areas DAT used to estimate the rate (e.g. postal prefix, market area, region).
- The size of confidence intervals around the estimated rate (e.g., the size of a 95% confidence interval, or of the (approximate) 50% confidence range described above).

| | |
|---|--|
| | Valid Values: 0 - |
| ratedLane | This is the lane that was actually used to compute the rate. It will denote the geographic region in which the requested origin and destination fall. See <code>RatedLane</code> |
| moves (int) | The number of moves (i.e., contributed lane data) that were used to compute the rate. This element is provided as an additional means for a user to evaluate the significance of the rate estimate, but may be removed in the future as DAT's rating algorithms evolve to utilize data from outside specific market areas and to incorporate long-term patterns. |
| | Valid Values: 0 - |
| daysBack (int) | The time period over which the rate was calculated. This element is provided as an additional means for a user to evaluate the significance of the rate estimate, but may be removed in the future as DAT's rating algorithms evolve to utilize data from outside specific market areas and to incorporate long-term patterns. |
| | Valid Values: 0 - |
| contractRate | The contract market rate is returned if the <code>includeContractRate</code> ag was specified on the request. |
| estimatedLinehaulRate (float) | The estimated linehaul rate. |
| lowLinehaulRate (float) | The low end of the contract-rate provider's estimated linehaul rate range. |
| highLinehaulRate (float) | The high end of the contract-rate provider's estimated linehaul rate range. |
| ratedLane | This is the lane that was actually used to compute the rate. It will denote the geographic region in which the requested origin and destination fall. See <code>RatedLane</code> |
| averageFuelSurchargeRate (float) | Average per-mile fuel surcharge for the lane. |
| averageAccessorialCharge (float) | Average accessorial charge for the lane. |
| contributors (int) | The number of individual contributors to the lane data that were used to compute the rate. This element is provided as an additional means for a user to evaluate the significance of the rate estimate. |
| | Valid Values: 0 - |
| moves (int) | The number of moves (i.e., contributed lane data) that were used to compute the rate. This element is provided as an additional means for a user to evaluate the significance of the rate estimate. |

| | |
|-------------|---|
| | Valid Values: 0 - |
| miles (int) | The road mileage between the origin and destination points. |
| | Valid Values: 0 - |

LookupHistoricSpotRates

Requests spot rate estimates for a lane over the past 13 months. Each rate returned will be credited against the pool of lookups associated with the user's Truckload Rate Index Subscription.

Request Fields

| | |
|--------------------|--|
| equipment | Rates deal with broader groups of equipment than EquipmentTypes or EquipmentClasses used in Freight Matching, so the set of equipment categories is much smaller. Valid Values: Vans, Flatbeds, Reefers |
| origin | The origin of the lane. See Place |
| destination | The destination of the lane. See Place |

Response Fields

| | |
|--------------------------------------|---|
| ratedLane | This is the lane that was actually used to compute the rate. It will denote the geographic region in which the requested origin and destination fall. See RatedLane |
| monthlyReport | Monthly rate reports for the requested lane. Returned in chronological ascending order. Only those months for which rate data is available will be returned, so there may be gaps. The most recent completed month is the last month returned (if sufficient data is available for that month). E.g., at any time in June, the monthly summary for May is the most recent summary available. If necessary, DAT's rate estimation algorithms will use expanded geographic regions to obtain a statistically meaningful sample. The geographic region will be expanded until rates are available for 75% of the requested months. All monthly reports will reflect the same geographic expansion level. |
| estimatedLinehaulRate (float) | The estimated per-mile rate. |
| lowLinehaulRate (float) | The low end of DAT's estimated per-mile rate range. In general, this is the rate defining the lowest quartile of rates. 25% of rates in the lane fall below this rate. |
| highLinehaulRate (float) | The high end of DAT's estimated per-mile rate range. In general, this is the rate defining the upper quartile of rates. 25% of rates fall above this rate. |

estimatedLinehaulTotal (float)

The estimated linehaul total. Note in general this will not equal estimatedLinehaulRate x mileage. The estimated total is obtained by averaging total rates in the lane for trips with similar mileage. The LinehaulTotal is generally more appropriate to use for short trips where minimums and hourly costs are more important than mileage in determining rates.

The per mile total is obtained by averaging per mile rates in the lane for trips with similar mileage. Per mile is more appropriate for long haul rates where per mile costs are most important in setting rates.

lowLinehaulTotal (float)

The low end of DAT's estimated total rate range. In general, this can be taken as the lower end of an approximately 50% confidence interval (although it may not always reflect an exact statistical confidence interval).

highLinehaulTotal (float)

The high end of DAT's estimated per-mile rate range. In general, this can be taken as the upper end of an approximately 50% confidence interval (although it may not always reflect an exact statistical confidence interval).

confidenceLevel (int)

A quantitative description of DAT's confidence in the rate estimate provided. It ranges from 1 (highest) to 100 (lowest).

This confidence is primarily derived from the amount of relevant data incorporated into the rate estimate. The confidence level incorporates factors such as:

- The number of recent rate submissions on the requested lane or on closely related lanes.
- The size of the geographic areas DAT used to estimate the rate (e.g. postal prefix, market area, region).
- The size of confidence intervals around the estimated rate (e.g., the size of a 95% confidence interval, or of the (approximate) 50% confidence range described above).

Valid Values: 0 -

when

year (int)

4-digit year

Valid Values: 1900 - 2200

month (int)

2-digit month

Valid Values: 1 - 12

7.5.3 LookupHistoricContractRates

Requests contract rate estimates for a lane and national average rates over the past 13 months. Each rate returned will be credited against the pool of lookups associated with the user's Truckload Rate Index Subscription.

Request Fields

equipment Rates deal with broader groups of equipment than EquipmentTypes or EquipmentClasses used in Freight Matching, so the set of equipment categories is much smaller.

Valid Values: Vans, Flatbeds, Reefers

origin The origin of the lane. See Place

destination The destination of the lane. See Place

Response Fields

ratedLane This is the lane that was actually used to compute the rate. It will denote the geographic region in which the requested origin and destination fall. See RatedLane

monthlyReport Monthly rate reports for the requested lane. Returned in chronological ascending order. Only those months for which rate data is available will be returned, so there may be gaps.

The summary for the current month is first computed on the 22nd or 23rd of the month (depending on weekends and holidays). Prior to that re-computation, the most recent monthly summary available is for the previous month. On the 24th (and in some cases on the 23rd), the current month's summary will be included.

estimatedLinehaulRate (float)

The estimated linehaul rate.

lowLinehaulRate (float)

The low end of the contract-rate provider's estimated linehaul rate range.

highLinehaulRate (float)

The high end of the contract-rate provider's estimated linehaul rate range.

when

Date of this estimate.

year (int)

4-digit year

Valid Values: 1900 - 2200

month (int)

2-digit month

Valid Values: 1 - 12

nationalLinehaulRate (float) The national average linehaul rate.

LookupDoeFuelPrices

Look up diesel fuel prices over the past 13 months, as reported by the Department of Energy.

Request Fields

No content required or provided

Response Fields

| | |
|-------------------------------|--|
| monthlyReports | The DOE reports prices for the current month a few days into the month. If a price is available for the current month, the report will include the current month and the previous 12 months. If no price is available for the current month, the report will instead include the previous 13 months. |
| when | The month and year represented by this report. |
| year (int) | 4-digit year Valid Values: 1900 - 2200 |
| month (int) | 2-digit month Valid Values: 1 - 12 |
| pricePerGallon (float) | Average monthly diesel price in USD. |

Alarm Match

Requests related to Alarm Match, providing real-time notification of incoming shipment and equipment postings.

CreateAlarm

Create an alarm search for an existing truck or load posting. An alarm waits for assets (loads or trucks) that match the associated posting and when one is found, it notifies the user through a web service call or via one of DAT's client applications (see `notifyAllApplications`). Alarms become immediately active in the freight-matching system when created. An alarm expires when it receives the maximum number of matches or at 6:00 PM Pacific Time. Alarms created after 6 PM expire at midnight.

Request Fields

| | |
|-------------------------|---|
| assetId (string) | The asset on which this alarm will be based. Length: 0 - 8 |
| criteria | The criteria for this alarm. See <code>AlarmSearchCriteria</code> |

Response Fields

| | |
|-------------------------|--|
| alarmId (string) | The ID of this alarm. This ID must be used when cancelling, updating, or querying this alarm. Length: 0 - 8 |
|-------------------------|--|

| | |
|--|---|
| alarm | A copy of the alarm that was created. This potentially saves the client a LookupAlarm request. |
| alarmId (string) | The ID of this alarm. Length: 0 - 8 |
| status | |
| userId (int) | The ID of the owner of this freight matching entity. Valid Values: 0 - |
| startDate (dateTime) | When this entity becomes active. Valid Values: 2003-01-01T00:00:00.000Z - |
| endDate (dateTime) | When this entity is no longer active. Valid Values: 2003-01-01T00:00:00.000Z - |
| created | When this entity was created. |
| user (int) | |
| date (dateTime) | |
| updated | When this entity was last updated. Will initially be set to the same as 'created'. |
| user (int) | |
| date (dateTime) | |
| lastModified | When this entity was last modified. I.e., the latter of 'created' and 'updated'. |
| user (int) | |
| date (dateTime) | |
| expired (boolean) | True if this asset has expired and is no longer visible in searches. |
| basisAssetId (string) | The asset this alarm is based on. Length: 0 - 8 |
| basisAssetPostersReferenceId (string) | The optional poster-supplied reference ID of the basis asset. If the asset did not have a poster-supplied reference ID, or this alarm was not based on an asset, then this element is omitted. Length: 0 - 8 |
| matchesRemaining (int) | Number of matches remaining that can be returned for this alarm. Valid Values: 0 - 3000 |

| | |
|----------------------------------|--|
| maxMatches (int) | Maximum number of matches that will be returned over the lifetime of this alarm. Valid Values: 0 - 3000 |
| alarmCriteria | The alarm criteria supplied when this alarm was created (or last updated). See <code>AlarmSearchCriteria</code> |
| matchingAssetIds (string) | List of the IDs of the assets that have been matched by this alarm. Length: 0 - 8 |
| matches | If the alarm requested an initial lookback search, this is the list of matches from that search. If no matches were found, this list is empty. If the alarm did not request an initial lookback search, this element is omitted. See <code>MatchingAsset</code> |

UpdateAlarm

Updates the search criteria for an existing alarm.

Request Fields

| | |
|--------------------------|---|
| alarmId (string) | The ID of the alarm being updated. The requester must be authorized to update the alarm. Length: 0 - 8 |
| originRadius | Radius around the asset's origin. If the asset has a non-Point origin (e.g., an Equipment with an Area/Empty origin), then this field will be ignored and a warning will be returned. |
| miles (int) | Mileage Valid Values: 0 - |
| method | Mileage calculation method. Valid Values: <code>Air</code> , <code>Road</code> , <code>RoadProMiles</code> , <code>RoadAlk</code> |
| destinationRadius | Radius around the asset's destination. If the asset has a non-Point destination (e.g., an Equipment with an Area/Empty destination), then this field will be ignored and a warning will be returned. |
| miles (int) | Mileage Valid Values: 0 - |
| method | Mileage calculation method. Valid Values: <code>Air</code> , <code>Road</code> , <code>RoadProMiles</code> , <code>RoadAlk</code> |

Response Fields

No content required or provided

LookupAlarm

Look up information on particular alarm(s). Only those alarms accessible by the requester can be successfully selected.

Request Fields

One of:

| | |
|-------------------------------|---|
| queryAlarmsByAlarmIds | Look up specific alarms by AlarmId. |
| queryAllMyAlarms | Look up all alarms belonging to the requester. |
| queryAllMyGroupsAlarms | Look up all alarms belonging to the requester or to members of their sharing group. |

Response Fields

alarms

| | |
|-----------------------------|--|
| alarmId (string) | The ID of this alarm. Length: 0 - 8 |
| status | |
| userId (int) | The ID of the owner of this freight matching entity. Valid Values: 0 - |
| startDate (dateTime) | When this entity becomes active. Valid Values: 2003-01-01T00:00:00.000Z - |
| endDate (dateTime) | When this entity is no longer active. Valid Values: 2003-01-01T00:00:00.000Z - |
| created | When this entity was created. |
| user (int) | |
| date (dateTime) | |
| updated | When this entity was last updated. Will initially be set to the same as 'created'. |
| user (int) | |
| date (dateTime) | |
| lastModified | When this entity was last modified. I.e., the latter of 'created' and 'updated'. |

| | |
|--|--|
| user (int) | |
| date (dateTime) | |
| expired (boolean) | True if this asset has expired and is no longer visible in searches. |
| basisAssetId (string) | The asset this alarm is based on. Length: 0 - 8 |
| basisAssetPostersReferenceId (string) | The optional poster-supplied reference ID of the basis asset. If the asset did not have a poster-supplied reference ID, or this alarm was not based on an asset, then this element is omitted. Length: 0 - 8 |
| matchesRemaining (int) | Number of matches remaining that can be returned for this alarm. Valid Values: 0 - 3000 |
| maxMatches (int) | Maximum number of matches that will be returned over the lifetime of this alarm. Valid Values: 0 - 3000 |
| alarmCriteria | The alarm criteria supplied when this alarm was created (or last updated). See AlarmSearchCriteria |
| matchingAssetIds (string) | List of the IDs of the assets that have been matched by this alarm. Length: 0 - 8 |
| unreported (string) | To keep the payload size (and transmission time) reasonable, the number of alarms returned is limited. For requesters with more alarms, this element contains the IDs of those alarms not reported in alarms. Clients can then feed this element to a new LookupAlarmsRequest , using QueryAlarmsByAlarmIds , repeating as necessary until unreported is no longer returned. Length: 0 - 8 |

DeleteAlarm

To "delete" means the alarm is no longer available for freight matching activities and is no longer retrieved on multi-alarm lookups.

If the alarm is currently active (i.e., not expired) then it will be automatically cancelled (and an alarm termination notice will be issued).

It is not a requirement that alarm ever be explicitly deleted. Deletion is a convenience for applications that make heavy use of multi-alarm lookups (e.g., [LookupAlarmOperation.LookupAllMyAlarms](#)).

Request Fields

One of:

| | |
|--------------------------------|--|
| deleteAlarmsByAlarmIds | Delete one or more alarms by AlarmId. |
| deleteAllMyAlarms | Delete all alarms owned by the requester. |
| deleteAllMyGroupsAlarms | Delete all alarms belonging by the requester or to other members of the requester's sharing group. |

Response Fields

No content required or provided

UpdateAlarmUrl

Specifies the web service endpoint URL that alarm notifications will be delivered to. If a single endpoint is shared for an entire company or office, DAT customer support can configure that URL. This request specifies a unique URL for the requester, and is appropriate when the endpoint is subject to frequent changes or differs between users.

Request Fields

| | |
|--------------------------|---|
| alarmUrl (string) | The URL to send future alarm results to for this user. Note that a URL may be set by DAT for an entire company or office, but that updating the URL overrides this default for a particular user only. It will not affect other users in their company or office. The URL specified is persisted between sessions. If a new URL is needed on a per-session basis (unlikely), the client should update it after login when beginning a new session. Length: 1 - 150 |
|--------------------------|---|

Response Fields

No content required or provided

LookupAlarmUrl

Look up the web service endpoint URL that alarm notifications will be delivered to. This request can be used to verify the URL that DAT has on file for the requester.

Request Fields

No content required or provided

Response Fields

| | |
|--------------------------|---|
| alarmUrl (string) | The URL that alarm matches will be sent to for this user. Note that the URL may be set at the company, office, or user level and overridden at a lower level. |
|--------------------------|---|

The alarm URL element will be omitted if the user has not set a URL.

Length: 0 - 150

DAT OnBoard

Requests related to retrieval of data on carriers who have completed a profile and signed contracts with the customer using DAT OnBoard.

Clients should check for events using the LookupDobEvents request on a set interval, such as every 5 minutes, in order to retrieve data soon after it is available. Events will include the carriers for which data is available so that data can be retrieved by using LookupDobCarriers request.

Note: We encourage developers implementing DAT OnBoard to consult the detailed description of event handling test procedures in Section 9.23

LookupDobEvents

Look up DAT OnBoard events received since a given date/time. Events include changes to carrier profile, carrier W9 status, carrier insurance agents, carrier attachments and contracts signed by a carrier.

Request Fields

| | |
|-----------------------------|--|
| sinceDate (dateTime) | The date and time to look for events. |
| dobVersion (int) | The version of response to receive. The default is 1. Set the version to the version of the XML schema that you built to. The version of this schema is 2. |

Response Fields

| | |
|-----------------------------|--|
| dobEvents | The DAT-On-Boarding events that were received since the given date. |
| carrierId (string) | The DAT-On-Boarding identifier for the carrier that signed contracts. Length: 0 - 40 |
| eventTypes | The types of events that were received concerning this carrier. Valid Values: Contract Signed, Profile Update, Insurance Agent Update, Tax Info Update, Document Update |
| signedContracts | The contracts that this carrier signed since the date provided. |
| contract | The contract that was signed. |
| name (string) | The Name of the contract. Length: 0 - 100 |
| description (string) | The description of the contract. Length: 0 - 100 |
| version (int) | The version of the contract. |

| | |
|--------------------------|---|
| | Valid Values: 1 - |
| documentStatus | The status of the contract (Active or Inactive); Valid Values: Active, Inactive |
| signatory | The signature information for the contract. |
| name (string) | The Name of person signing a contract. Length: 0 - 100 |
| title (string) | The title of the person signing a contract. Length: 0 - 100 |
| signed (dateTime) | The date the contract was signed. |
| url (anyURI) | The URL from which this contract may be downloaded. Provided only when dobVersion>1 and for contracts signed through AssureSign. Max 256 characters. |

LookupDobCarriers

Look up information on a DAT OnBoard carrier. All data available for the carrier is returned.

Request Fields

| | |
|---------------------------|--|
| dobVersion (int) | The version of response to receive. The default is 1. Set the version to the version of the XML schema that you built to. The version of this schema is 2. |
| carrierId (string) | The DAT-On-Boarding identifier for the carrier of interest. Length: 0 - 40 |

Response Fields

| | |
|------------------------------|---|
| dobCarrier | The DAT-On-Boarding data available for the specified carrier. |
| lastUpdate (dateTime) | The last date and time anything for this carrier was up-dated. |
| carrierInfo | The carrier identifiers, names, addresses and phone numbers. |
| lastUpdate (dateTime) | The last date and time any of the data in this section was updated. |
| legalName (string) | The legal name that this carrier operates under. Length: 0 - 155 |
| dbaName (string) | The Doing-Business-AS name of the carrier. Length: 0 - 155 |
| dotNumber (int) | The FMCSA DOT number assigned to this carrier. Valid Values: 0 - |

| | |
|--------------------------------|---|
| docket | <p>The FMCSA MC/MX/FF number assigned to this carrier.</p> <p>DOT docket is made up of a prefix and a number. Prefix is a 2-character String. The number is a non-negative 32-bit integer.</p> |
| prefix (string) | <p>Docket Prefix. Not available in the first release.</p> <p>Length: 0 - 2</p> |
| number (int) | <p>Docket Number of the company.</p> <p>Valid Values: 0 -</p> |
| intrastate | <p>The intrastate code given to this carrier. Only provided if the carrier is only a intrastate carrier.</p> <p>The intrastate type is made up of 1) The state the carrier is authorized to operate within. A 2-character string. 2) The state's assigned operating code for this carrier. A 15-digit number.</p> |
| intrastateState | <p>The state the carrier is authorized to operate within. See <code>StateProvince</code></p> |
| intrastateCode (string) | <p>The state's assigned operating code for this carrier.</p> <p>Length: 0 - 15</p> |
| duns (int) | <p>The 9-digit duns number for this carrier.</p> <p>Valid Values: 1 - 999999999</p> |
| scacCode (string) | <p>The SCAC codes assigned to this carrier.</p> <p>Length: 0 - 4</p> |
| website (anyURI) | <p>Company website URL, max 256 characters.</p> |
| physicalAddress | <p>The physical address and phone numbers of this company.</p> |
| phone | <p>Best available phone number corresponding to the address. See <code>PhoneNumber</code></p> |
| tollFreePhone | <p>Best available toll-free phone number corresponding to the address. See <code>PhoneNumber</code></p> |
| fax | <p>Best available Fax number corresponding to the address. See <code>PhoneNumber</code></p> |
| street (string) | <p>Street refers to a street name, which is an identifying name given to a street. The street name forms part of the address. It's a String with 0-200 characters.</p> <p>Length: 0 - 200</p> |
| city (string) | <p>City refers to a city name, which is a relatively large and permanent settlement. It's a String with 0-50 characters.</p> |

| | |
|------------------------|---|
| | Length: 0 - 50 |
| stateProvince | The DOT does not always supply a state, particularly for carriers located in Mexico. See <code>StateProvince</code> |
| postalCode (string) | <p>North American Postal Codes:</p> <p>Canada: LNL NLN</p> <p>Mexico: NNNNN</p> <p>US ZIP: NNNNN(-NNNN)</p> <p>The DOT does not always supply a postal code, particularly for carriers located in Mexico.</p> <p>Length: 5 - 10</p> |
| countryCode | <p>Based on two-letter ISO 3166 country codes for countries supported by DAT. This is a 2-character String.</p> <p>Valid Values: <code>US</code>, <code>CA</code>, <code>MX</code></p> |
| mailingAddress | The mailing address and phone numbers of this company. |
| phone | Best available phone number corresponding to the address. See <code>PhoneNumber</code> |
| tollFreePhone | Best available toll-free phone number corresponding to the address. See <code>PhoneNumber</code> |
| fax | Best available Fax number corresponding to the address. See <code>PhoneNumber</code> |
| street (string) | <p>Street refers to a street name, which is an identifying name given to a street. The street name forms part of the address. It's a String with 0-200 characters.</p> <p>Length: 0 - 200</p> |
| city (string) | <p>City refers to a city name, which is a relatively large and permanent settlement. It's a String with 0-50 characters.</p> <p>Length: 0 - 50</p> |
| stateProvince | The DOT does not always supply a state, particularly for carriers located in Mexico. See <code>StateProvince</code> |
| postalCode (string) | <p>North American Postal Codes:</p> <p>Canada: LNL NLN</p> <p>Mexico: NNNNN</p> <p>US ZIP: NNNNN(-NNNN)</p> |

| | |
|------------------------------|---|
| | The DOT does not always supply a postal code, particularly for carriers located in Mexico. |
| | Length: 5 - 10 |
| countryCode | Based on two-letter ISO 3166 country codes for countries supported by DAT. This is a 2-character String. |
| | Valid Values: US, CA, MX |
| paymentInfo | The payment information for this carrier. |
| lastUpdate (dateTime) | The last date and time any of the data in this section was updated. |
| remitToName (string) | The name to make payments out to. |
| | Length: 0 - 155 |
| remitToAddress | The address to send payments. |
| phone | Best available phone number corresponding to the address. See <code>PhoneNumber</code> |
| tollFreePhone | Best available toll-free phone number corresponding to the address. See <code>PhoneNumber</code> |
| fax | Best available Fax number corresponding to the address. See <code>PhoneNumber</code> |
| street (string) | Street refers to a street name, which is an identifying name given to a street. The street name forms part of the address. It's a String with 0-200 characters. |
| | Length: 0 - 200 |
| city (string) | City refers to a city name, which is a relatively large and permanent settlement. It's a String with 0-50 characters. |
| | Length: 0 - 50 |
| stateProvince | The DOT does not always supply a state, particularly for carriers located in Mexico. See <code>StateProvince</code> |
| postalCode (string) | North American Postal Codes: |
| | Canada: LNL NLN |
| | Mexico: NNNNN |
| | US ZIP: NNNNN(-NNNN) |
| | The DOT does not always supply a postal code, particularly for carriers located in Mexico. |
| | Length: 5 - 10 |

| | |
|-------------------------------------|--|
| countryCode | Based on two-letter ISO 3166 country codes for countries supported by DAT. This is a 2-character String. |
| | Valid Values: US, CA, MX |
| isFactoringCompany (boolean) | Indicates whether or not the remit-to name and address are for a factoring company. |
| interestInQuickPay (boolean) | Indicates interest in quick-pay plans. |
| references | Payment references that may be contacted. |
| companyName (string) | |
| contactName (string) | |
| phone | See <code>PhoneNumber</code> |
| contactInfo | The payment information for this carrier. |
| lastUpdate (dateTime) | The last date and time any of the contacts were updated. |
| contacts | List of personnel and their roles in the company. |
| role (string) | A carrier's contact's role. Length: 0 - 30 |
| name (string) | A carrier's contact's name. Length: 0 - 155 |
| title (string) | A carrier's contact's title. Length: 0 - 50 |
| phone | See <code>PhoneNumber</code> |
| fax | See <code>PhoneNumber</code> |
| email (string) | A carrier's contact's email address. Length: 0 - 256 |
| isPrimaryContact (boolean) | |
| services | The services that this carrier provides. |
| lastUpdate (dateTime) | The last date and time any of the data in this section was updated. |
| companyType | The type of company this is. Valid Values: Corporation, Partnership, Sole Proprietorship |
| yearFounded (int) | The year the company was founded. |

Valid Values: 1900 - 2200

womanOwned (boolean) Indicates if the carrier is owned by a woman.

veteranOwned (boolean) Indicates if the carrier is owned by a military veteran.

disabledVeteranOwned (boolean)

Indicates if the carrier is owned by a disabled military veteran. Only provided when `dobVersion>1` is specified.

minorityOwnership Indicates if the carrier is owned by a minority.

minorityOwned

nmsdcCertified (boolean)

certificateNumber (string)

regionalCouncil (string)

isSmartwayCarrier (boolean)

Indicates if carrier is a Smartway carrier.

isHazmatCertified (boolean)

Indicates if carrier is hazmat certified.

isRadioActiveCertified (boolean)

Indicates if carrier is certified to carry radioactive material.

isAceCertified (boolean) Indicates if carrier is certified by ACE.

Boolean type.

isCtpatMember (boolean)

Indicates if carrier is C-TPAT Member.

isTwicCardholder (boolean)

Indicates if carrier is a TWIC Cardholder.

isTsaRegistered (boolean)

Indicates if carrier is TSA Registered.

isResponsibleCareCarrier (boolean)

Indicates if carrier is a responsible care carrier.

carbCompliantTRUs (boolean)

Indicates if 100% of a carrier's Transport Refrigeration Units (TRU) are compliant with California's air quality regulations. Only provided if `dobVersion>1` is specified.

fastCode (string)

The carrier's FAST Code.

Length: 0 - 14

csaCode (string)

The carrier's CSA Code.

| | |
|---|---|
| | Length: 0 - 4 |
| iacCertification | The carrier's IAC information. |
| iacCode (string) | |
| expires (date) | |
| isUPSCarrier (boolean) | Indicates if carrier carries for UPS. |
| handlesRailDryage (boolean) | Indicates if carrier handles rail Dryage. |
| handlesPortDryage (boolean) | Indicates if carrier handles Port Dryage. |
| hasLTLCapabilities (boolean) | Indicates if carrier has LTL capabilities. |
| handlesExpeditedGround (boolean) | Indicates if carrier provides expedited ground services. |
| handlesAirFreightCartage (boolean) | Indicates if carrier handles air freight cartage. |
| handlesEdi (boolean) | Indicates if carrier can handle EDI. |
| handlesOversizeLoads (boolean) | Indicates if carrier can handle extra wide, long or heavy loads. |
| hasSpottedTrailers (boolean) | Indicates if carrier has spotted trailers. |
| hasCarbCompliantTrucks (boolean) | Indicates if carrier uses CARB compliant trucks. |
| doesTrailerInterchange (boolean) | Indicates if carrier does trailer interchanges. |
| doesPalletExchange (boolean) | Indicates if carrier does pallet exchanges. |
| doesMultiStops (boolean) | Indicates if carrier will make multiple stops. |
| doesParcels (boolean) | Indicates if the carrier deals with Parcels. |
| doesBrokerage (boolean) | Indicates if the carrier also has brokerage services. |
| brokerDocket | The broker docket number, if the carrier also has brokerage services. |
| prefix (string) | Docket Prefix. Not available in the first release. |
| | Length: 0 - 2 |
| number (int) | Docket Number of the company. |
| | Valid Values: 0 - |
| otherServices (string) | Other services that the carrier provides. |
| | Length: 0 - 256 |
| airports (string) | The airports this carrier services. |
| | Length: 0 - 50 |
| ports (string) | The ports this carrier services. |
| | Length: 0 - 50 |

| | |
|-------------------------------------|---|
| equipment | The equipment that this carrier has. |
| lastUpdate (dateTime) | The last date and time any of the data in this section was updated. |
| numberOfPowerUnits (int) | The number of power units the carrier has. A signed 32-bit integer. |
| numberOfTeams (int) | The number of teams the carrier has. A signed 32-bit integer. |
| numberOfCompanyDrivers (int) | The number of company drivers the carrier has. A signed 32-bit integer. |
| numberOfOwnerOperators (int) | The number of owner operators that use their own authority, that the carrier works with. A signed 32-bit integer. |
| onBoardCommunications | The method used to communicate with the drivers. (Satellite, Cell, or Pager). Valid Values: Not Specified, Cell, Satellite, Pager |
| trailers | The types and number of trailers that a carrier has. Consisted of two parts: 1) The type of trailer Van, Reefer, or Flatbed. - A 6-15 character String. 2) The number of this type of trailer. - A signed 32-bit integer. |
| trailerType | The type of trailer Van, Reefer, or Flatbed. Valid Values: Van 48ft, Reefer 48ft, Flatbed48ft, Van 53ft, Reefer 53ft, Flatbed 53ft, Auto Carrier, Cargo Van, Container, Double Drop, Drop/Step, Dump Trailer, Hopper Bottom, Lowboy, Moving Van, Straight Truck, Stretch Trailer, Tanker |
| numberOf (int) | The number of this type of trailer. |
| hasAirRide (boolean) | Indicates if the carrier has air ride trailers. |
| hasVented (boolean) | Indicates if the carrier has vented trailers. |
| hasHotshot (boolean) | Indicates if the carrier has hot shot trailers. |
| hasCurtains (boolean) | Indicates if the carrier has curtains. |
| hasInsulated (boolean) | Indicates if the carrier has insulated trailers. |
| hasConestoga (boolean) | Indicates if the carrier has Conestoga trailers. |

| | |
|------------------------------------|--|
| hasCoilRacks (boolean) | Indicates if the carrier has coil racks. |
| hasContainerLocks (boolean) | Indicates if the carrier has container locks. |
| hasTarps (boolean) | Indicates if the carrier has tarps. |
| hasEtrac (boolean) | Indicates if the carrier has ETRAC. |
| hasGarmentRacks (boolean) | Indicates if the carrier has garment racks. |
| hasPadWrap (boolean) | Indicates if the carrier has pad wrap. |
| hasStraps (boolean) | Indicates if the carrier has straps. |
| hasChains (boolean) | Indicates if the carrier has chains. |
| geographicCoverage | The geographic areas that this carrier services. |
| lastUpdate (dateTime) | The last date and time any of the data in this section was updated. |
| serviceInMexico (boolean) | Indicates service to the carrier provides service in Mexico. |
| operatingStateProvince | List of US states and Canadian provinces that the carrier operates within. See StateProvince |
| lanes | Lists the lanes that the carrier operates within. |
| origin | The starting point of the lane. |
| stateProvince | The state or province of the end point. See StateProvince |
| metroArea | If one is specified, the metropolitan area of the end point. |
| code (int) | The numeric code reserved for this metropolitan area. Valid Values: 0 - |
| name (string) | The name describing this metropolitan area. Length: 0 - 40 |
| code (int) | The numeric code reserved for this metropolitan area. Valid Values: 0 - |
| name (string) | The name describing this metropolitan area. Length: 0 - 40 |
| destination | The ending point of the lane. |
| stateProvince | The state or province of the end point. See StateProvince |
| metroArea | If one is specified, the metropolitan area of the end point. |

| | |
|------------------------------|---|
| code (int) | The numeric code reserved for this metropolitan area. Valid Values: 0 - |
| name (string) | The name describing this metropolitan area. Length: 0 - 40 |
| code (int) | The numeric code reserved for this metropolitan area. Valid Values: 0 - |
| name (string) | The name describing this metropolitan area. Length: 0 - 40 |
| taxInfo | The tax information for this carrier. |
| lastUpdate (dateTime) | The last date and time the tax info was updated. |
| One of: | |
| w9Info | The W9 tax form information provided by the carrier. |
| tin (int) | The federal tax id number. Valid Values: 10000000 - 999999999 |
| type | The type of tax id provided, SSN or EIN. Valid Values: EIN, SSN |
| status | The status of the federal tax id: Pending, Valid, or Not-Valid. Valid Values: Pending, Valid, NotValid |
| name (string) | The carrier name as shown on their income tax return. Length: 0 - 155 |
| businessName (string) | The carrier business name/disregard entity name, if different from above. Length: 0 - 155 |
| street (string) | The street address. Length: 0 - 200 |
| city (string) | The city address. Length: 0 - 50 |
| stateProvince | The State or Province. See <code>StateProvince</code> |
| postalCode (string) | The Postal code. Length: 5 - 10 |

federalTaxClassification

The W9 Federal Tax Classification.

One of:**classificationType**

The simple tax classifications of the W-9 tax form.

Valid Values: Individual/sole proprietor, C Corporation, S Corporation, Partnership, Trust/estate, Exempt payee, Other

limitedLiabilityType

The special limited liability company tax classification, which requires further describes the tax classification.

Valid Values: C Corporation, S Corporation, Partnership

w8Info

The W8 tax form information provided by the carrier.

name (string)

The name of individual or organization that is the beneficial owner.

Length: 0 - 155

typeOfBeneficialOwner

The type of beneficial owner.

Valid Values: Individual, Corporation, Disregarded, Partnership, Simple trust, Grantor Trust, Complex trust, Estate, Government, International organization, Central bank of issue, Tax-exempt organization, Private foundation

permenantAddress

The permanent address.

phone

Best available phone number corresponding to the address. See `PhoneNumber`

tollFreePhone

Best available toll-free phone number corresponding to the address. See `PhoneNumber`

fax

Best available Fax number corresponding to the address. See `PhoneNumber`

street (string)

A street name.

Length: 0 - 200

city (string)

A city name.

Length: 0 - 50

stateProvince

The DOT does not always supply a state, particularly for carriers located in Mexico. See `StateProvince`

postalCode (string)

North American Postal Codes

- Canada: LNL NLN

| | |
|------------------------------|---|
| | <ul style="list-style-type: none"> • Mexico: NNNNN • US ZIP: NNNNN(-NNNN) <p>The DOT does not always supply a postal code, particularly for carriers located in Mexico.</p> <p>Length: 5 - 10</p> |
| countryCode | <p>Based on two-letter ISO 3166 country codes for countries supported by DAT. This is a 2-character String.</p> <p>Valid Values: <code>US</code>, <code>CA</code>, <code>MX</code></p> |
| mailingAddress | The mailing address, if different from permanentAddress. |
| Phone | Best available phone number corresponding to the address. See <code>PhoneNumber</code> |
| tollFree | Phone Best available toll-free phone number corresponding to the address. See <code>PhoneNumber</code> |
| fax | Best available Fax number corresponding to the address. See <code>PhoneNumber</code> |
| street (string) | <p>A street name.</p> <p>Length: 0 - 200</p> |
| city (string) | <p>City name.</p> <p>Length: 0 - 50</p> |
| stateProvince | The DOT does not always supply a state, particularly for carriers located in Mexico. See <code>StateProvince</code> |
| postalCode (string) | <p>North American Postal Codes</p> <ul style="list-style-type: none"> • Canada: LNL NLN • Mexico: NNNNN • US ZIP: NNNNN(-NNNN) <p>The DOT does not always supply a postal code, particularly for carriers located in Mexico.</p> <p>Length: 5 - 10</p> |
| countryCode | <p>Based on two-letter ISO 3166 country codes for countries supported by DAT. This is a 2-character String.</p> <p>Valid Values: <code>US</code>, <code>CA</code>, <code>MX</code></p> |
| foreignTaxId (string) | <p>The foreign tax identifying number.</p> <p>Length: 0 - 50</p> |

| | |
|---------------------------|---|
| foreignTaxIdType (string) | The type of foreign tax identifying number (BIN or SIN). Only provided when dobVersion>1. Length: 0 - 3 |
| tin (int) | The federal tax id number if they have one. Valid Values: 10000000 - 999999999 |
| type | The type of tax id provided, SSN or EIN. Valid Values: EIN, SSN |
| insuranceAgentInfo | The information about the carrier's insurance agents. |
| lastUpdate (dateTime) | The last date and time the insurance agent information was updated. |
| agents | The types of coverage this agent provides. |
| coverageType | The types of coverage this agent provides. Valid Values: CARGO, AUTO, GENERAL, WORKERS COMP |
| agent (string) | The name of the insurance agent's company. Length: 0 - 90 |
| phone | The phone number of the insurance agent. See <code>PhoneNumber</code> |
| fax | The fax number for the insurance agent. See <code>PhoneNumber</code> |
| documents | The documents that this carrier provides. |
| created (dateTime) | The date and time the document was created. |
| documentType (string) | The type of document (Hazmat, Smartway or CTPAT) Length: 0 - 20 |
| fileName (string) | The name of the file that the document is stored in. Length: 0 - 100 |
| fileExtension (string) | The file extension that the document is stored in. Length: 0 - 4 |
| documentName (string) | The name of the document. Length: 0 - 100 |
| description (string) | A description of the document Length: 0 - 100 |

| | |
|--------------|--|
| url (anyURI) | The URL from which this document may be downloaded. Not provided for inactive documents. max 256 characters. |
|--------------|--|

LookupDobSignedCarriers

Look up all carriers that have signed contracts through DAT OnBoard with the user. The intended usage is to synchronize the client's system with all relevant data available in DAT OnBoard. All carriers which have ever signed a contract with the customer and the contracts they have signed will be returned.

Request Fields

No content required or provided

Response Fields

| | |
|-----------------------------|--|
| signedCarriers | The list of carriers and the contracts that they have signed with the user. |
| carrierId (string) | The DAT-On-Boarding identifier for the carrier that signed contracts. Length: 0 - 40 |
| signedContracts | The contracts that this carrier signed. |
| contract | The contract that was signed. |
| name (string) | The Name of the contract. Length: 0 - 100 |
| description (string) | The description of the contract. Length: 0 - 100 |
| version (int) | The version of the contract. Valid Values: 1 - |
| documentStatus | The status of the contract (Active or Inactive); Valid Values: Active, Inactive |
| signatory | The signature information for the contract. |
| name (string) | The Name of person signing a contract. Length: 0 - 100 |
| title (string) | The title of the person signing a contract. Length: 0 - 100 |
| signed (dateTime) | The date the contract was signed. |
| url (anyURI) | The URL from which this contract may be downloaded. Provided only when dobVersion>1 and for contracts signed through AssureSign. Max 256 characters. |

Shared Types

The data structures described here are shared by multiple requests

Asset

| | |
|-----------------------------|---|
| assetId (string) | The historically unique ID assigned to this asset by the Freight Matching Service. Length: 0 - 8 |
| status | The current status of this asset. |
| userId (int) | The ID of the owner of this freight matching entity. Valid Values: 0 - |
| startDate (dateTime) | When this entity becomes active. Valid Values: 2003-01-01T00:00:00.000Z - |
| endDate (dateTime) | When this entity is no longer active. Valid Values: 2003-01-01T00:00:00.000Z - |
| created | When this entity was created. |
| user (int) | |
| date (dateTime) | |
| updated | When this entity was last updated. Will initially be set to the same as 'created'. |
| user (int) | |
| date (dateTime) | |
| lastModified | When this entity was last modified. I.e., the latter of 'created' and 'updated'. |
| user (int) | |
| date (dateTime) | |
| expired (boolean) | True if this asset has expired and is no longer visible in searches. |
| One of: | |
| shipment | Shipment-specific information. |
| equipmentType | The type of equipment that is needed to haul this shipment. See <code>EquipmentType</code> |
| origin | The origination point of this shipment. See <code>Place</code> |
| destination | The destination point of this shipment. See <code>Place</code> |

| | |
|--------------------------------|---|
| truckStops | <p>All the information needed to advertise this shipment on the Truck Stop network.</p> <p>If omitted, this shipment will not be advertised on the Truck Stop Network.</p> |
| One of: | |
| truckStopIds | |
| ids (int) | <p>A list of DAT identifiers for the truck stops the shipment should be displayed at.</p> <p>Valid Values: 0 - 9999</p> |
| closest | <p>Select the truck stops closest to the shipment origin.</p> <p>The number of selected locations is determined by the poster's subscription and contract.</p> |
| alternateClosest | <p>Select the truck stops closest to an alternate origin point.</p> <p>This option is typically used to display the shipment on truck stops in the desired lane.</p> <p>The number of selected locations is determined by the poster's subscription and contract.</p> |
| alternateOrigin | <p>Origin point. See <code>Place</code></p> |
| enhancements | <p>Optional truck stop load monitor video enhancements for this shipment's advertisement.</p> <p>Valid Values: <code>Flash</code>, <code>Highlight</code></p> |
| posterDisplayName (string) | <p>The short name of the poster's company, for display on the truck stop load monitors.</p> <p>If omitted, the short name of the poster's company will default to that contained in the poster's company record.</p> <p>Length: 0 - 8</p> |
| rate | <p>Payment rate in USD (at-rate or per-mile).</p> |
| baseRateDollars (float) | <p>Rate in US Dollars (the <code>rateBasedOn</code> element defines whether this is a at rate or per-mile).</p> <p>Valid Values: 0.0 - 99999.99</p> |
| rateBasedOn | <p>Per-mile or at-rate.</p> <p>Valid Values: <code>Flat</code>, <code>PerMile</code></p> |

| | |
|-----------------------------|---|
| rateMiles (int) | <p>If the rate is based on per-mile, or at-rate for a trip, this is the mileage used by the poster. It is supplied by the poster, and may not agree with HHG mileage or that computed by mileage vendors.</p> <p>Valid Values: 0 - 9999</p> |
| equipment | Equipment-specific information. |
| equipmentType | The type of this equipment. See <code>EquipmentType</code> |
| origin | The origination point of this equipment. See <code>Place</code> |
| destination | The desired destination (point, area, or open). |
| One of: | |
| place | A specific location. See <code>Place</code> |
| area | A geographic area, defined by a list of states or a region. |
| stateProvinces | A list of states and/or provinces in the desired region. See <code>StateProvince</code> |
| zones | A list of one or more zones in the desired region. See <code>Zone</code> |
| open | Represents "anywhere". |
| postersReferenceId (string) | <p>Poster-supplied reference ID for this asset.</p> <p>Length: 0 - 8</p> |
| ltl (boolean) | <p>For shipments, if set true, then this shipment will not occupy a full truck. For equipment, if set true, then this equipment does not have enough available capacity to carry a full shipment. The element <code>\dimensions</code> should be consulted for cargo/capacity size.</p> |
| comments (string) | <p>Optional poster-supplied comment(s) for this asset, displayed on search match results and the Truck Stop Network.</p> <p>Length: 0 - 70</p> |
| count (int) | <p>The number of assets represented by this description. Will always be at least 1.</p> <p>Valid Values: 0 -</p> |
| dimensions | For shipments, the dimensions of the cargo. For equipment, the dimensions of the available cargo capacity. |
| lengthFeet (int) | <p>Length of the shipment or truck deck in feet.</p> <p>Valid Values: 1 - 199</p> |
| weightPounds (int) | <p>Weight of the shipment or truck carrying capacity in pounds.</p> <p>Valid Values: 1 - 199999</p> |

| | |
|-----------------------|---|
| heightInches (int) | Height of the shipment or truck box in inches. Valid Values: 1 - 299 |
| volumeCubicFeet (int) | Volume of the shipment or truck box in cubic feet. Valid Values: 1 - 9999 |
| stops (int) | The number of stops this asset must make. Will always be at least 1. Valid Values: 0 - |
| availability | For shipments, when the cargo is available for pickup by a truck. For equipment, when the truck is available to pick up a shipment. |
| earliest (dateTime) | For shipments, the earliest the shipment can be picked up. For equipment, the earliest the equipment is available to pick up a shipment. Valid Values: 2003-01-01T00:00:00.000Z - |
| latest (dateTime) | For shipments, the latest the shipment can be picked up. For equipment, the latest the equipment is available to pick up a shipment. Valid Values: 2003-01-01T00:00:00.000Z - |

EquipmentType

Valid Values

Auto Carrier
 Container
 Container, Insulated
 Container, Refrigerated
 Double Drop
 Drop Deck, Landoll
 Dump Trailer
 Flatbed
 Flatbed, Air-Ride
 Flatbed, B-Train
 Flatbed, Double
 Flatbed, HazMat

Flatbed, Hotshot
Flatbed, Maxi
Flatbed w/Sides
Flatbed w/Tarps
Flatbed w/Team
Flatbed or Step Deck
Flatbed/Van/Reefer
Hopper Bottom
Lowboy
Moving Van
Pneumatic
Power Only
Reefer
Reefer, Air-Ride
Reefer, Double
Reefer, HazMat
Reefer, Intermodal
Reefer, Logistics
Reefer w/Team
Removable Gooseneck
Step Deck
Stretch Trailer
Tanker, Aluminum
Tanker, Intermodal
Tanker, Steel
Truck and Trailer
Van
Van, Air-Ride

Van, Conestoga
Van, Curtain
Van, Double
Van, HazMat
Van, Hotshot
Van, Insulated
Van, Intermodal
Van, Lift-Gate
Van, Logistics
Van, Open-Top
Van, Roller Bed
Van, Triple
Van, Vented
Van w/Team
Van or Flatbed w/Tarps
Van or Flatbed
Van or Reefer
Insulated Van or Reefer
Reefer or Vented Van
Flatbed, w/Chains
Reefer, w/Pallet Exchange
Van, w/Blanket Wrap
Lowboy or RGN
Van, w/Pallet Exchange
Step Deck or RGN
Conveyor
Flatbed, Over Dimension
Lowboy, Over Dimension

Conestoga
Flatbed Conestoga
Stepdeck Conestoga
Straight Box Truck

Place

One of:

postalCode USPS or Canada Post postal code. The Freight Matching Service will use the city+state/province assigned to this postal code).

Country

Country code.

Valid Values: `US`, `CA`, `MX`

code (string)

ZIP or postal code. The hyphen in 9-digit US ZIP codes and the space in Canadian postal codes are optional. Length: 5 - 10

cityAndState

City + state/province. The Freight Matching Service will match the city + state/province against its atlas of known cities. If multiple cities of the same name exist in the state/province, it will use the optional county to disambiguate.

city (string)

City name.

Length: 0 - 30

stateProvince

State or province. See `StateProvince`

county (string)

County. If present, the county is used to disambiguate between multiple similarly named cities in the state or province.

Length: 0 - 30

namedPostalCode

Postal code + city + state/province. The Freight Matching Service will internally use the latitude/longitude coordinates of the city assigned to the postal code, but will list the specified city + state/province on as-sets/searches. This option is useful when the popularly named city is not what USPS/CP assigns to that postal code (e.g., 97222 is officially Portland, Oregon, but residents of that ZIP refer to their locale as Milwaukie).

city (string)

City name.

Length: 0 - 30

stateProvince

State or province. See `StateProvince`

county (string)

County. If present, the county is used to disambiguate between multiple similarly named cities in the state or province.

| | |
|--------------------------|---|
| | Length: 0 - 30 |
| postalCode | |
| country | Country code. Valid Values: <code>US</code> , <code>CA</code> , <code>MX</code> |
| code (string) | ZIP or postal code. The hyphen in 9-digit US ZIP codes and the space in Canadian postal codes are optional. Length: 5 - 10 |
| Coordinates | Latitude/longitude coordinates. The Freight Matching Service will internally assign the closest known city to those coordinates. Note that this could result in a city being selected that is not in the same state/province as the coordinates. |
| latitude (float) | Latitude of the desired point. Valid Values: 13.00 - 86.00 |
| longitude (float) | Longitude of the desired point. Valid Values: -177.00 - -52.00 |
| namedCoordinates | City + state/province + coordinates. The API will use the city, state/province, and coordinates to resolve to a known place. If an exact match is not found, the API will use variations in the city spelling and proximity to the coordinates to resolve. If no resolution is found, the API will accept the specified city spelling as-is, and use the specified coordinates and state/province (although road mileages based on this city will not be possible). |
| latitude (float) | Latitude of the desired point. Valid Values: 13.00 - 86.00 |
| longitude (float) | Longitude of the desired point. Valid Values: -177.00 - -52.00 |
| city (string) | City name. Length: 0 - 30 |
| stateProvince | State or province. See <code>StateProvince</code> |
| SearchCriteria | |
| assetType | Type of asset to search for (shipment or equipment). Valid Values: <code>Shipment</code> , <code>Equipment</code> |

| | |
|-----------------------|--|
| equipmentClasses | <p>Match on assets belonging to any equipment class in this list. Each equipment class represents a predefined set of equipment types. If you need finer-grained control of which types are returned, you can specify one or more EquipmentTypes using the equipmentTypes element.</p> <p>Note that the 'Conestoga' class introduced in late 2012 is only supported for API versions ≥ 2 (see <code>LoginRequest</code>). See <code>EquipmentClass</code></p> |
| equipmentTypes | <p>Match on assets belonging to any equipment type in this list. Search by equipment type(s) was introduced in late 2012, and is only supported for API versions ≥ 2 (see <code>LoginRequest</code>). See <code>EquipmentType</code></p> |
| ageLimitMinutes (int) | <p>Search for assets that are no older than this number of minutes. The age of an asset is the time since it was created, or last updated, or last refreshed, whichever is latest.</p> <p>Note: An age of zero will result in no matches; this is usually not desirable.</p> <p>If omitted, defaults to 60 minutes.</p> <p>NOTE: if an alarm is being created as part of a PostAs-set, then this field has no effect: an initial lookback search is not possible when posting an asset.</p> <p>Valid Values: 0 - 5940</p> |
| origin | <p>Search origin.</p> <p>Note that the origin and destination cannot both be 'open'. I.e., they both cannot specify a GeoCriteria member that is of type 'SearchOpen'. All such search requests will be rejected with an error. See <code>GeoCriteria</code></p> |
| destination | <p>Search destination. See <code>GeoCriteria</code></p> |
| availability | <p>Search for assets that become available during specified limits. Assets available prior to 'earliest' (i.e., assets whose 'latest' availability is prior to this criteria's 'earliest') will be excluded. Assets that are not available until after 'latest' (i.e., assets whose 'earliest' availability is after this criteria's 'latest') will be excluded.</p> <p>If this specification is omitted, then it will default to (now, now+24hrs).</p> <p>Note 1: 'latest' (if specified) must be on or after 'earliest' (This cannot be enforced with schema, since schema doesn't have relational operators). A violation will result in defaulting 'latest' to 24 hours after 'earliest'. If 'earliest' is not specified, then it will be defaulted to 24 hours prior to 'latest'.</p> <p>Note 2: 'earliest' (if specified) must be on or prior to 'latest' (this cannot enforce with schema, since schema doesn't have relational operators).</p> |

| | |
|------------------------|--|
| | A violation will cause defaulting 'earliest' to 24 hours prior to 'latest'. If 'latest' is not specified, then it will be defaulted to 24 hours after 'earliest'. |
| earliest (dateTime) | <p>For shipments, the earliest the shipment can be picked up. For equipment, the earliest the equipment is available to pick up a shipment.</p> <p>Valid Values: 2003-01-01T00:00:00.000Z -</p> |
| latest (dateTime) | <p>For shipments, the latest the shipment can be picked up. For equipment, the latest the equipment is available to pick up a shipment.</p> <p>Valid Values: 2003-01-01T00:00:00.000Z -</p> |
| includeLtlis (boolean) | <p>If set true, when searching for shipments, include shipments that are marked by their poster as \LTL" (i.e., the shipment does not occupy all the capacity of a truck).</p> <p>If set true, when searching for equipment, include those that are marked by their poster as \LTL" (i.e., only part of the equipment's capacity is available).</p> <p>If omitted, defaults to true.</p> |
| includeFulls (boolean) | <p>If set true, when searching for loads, include shipments that are \full" loads (i.e., non-LTLs).</p> <p>If set true, when searching for trucks, include trucks that are not marked as LTL (i.e., they are available to carry a full shipment).</p> <p>If omitted, defaults to true.</p> |
| limits | <p>When searching for shipments, specifies the available capacity of the searcher's equipment (i.e., the maximum available cargo size).</p> <p>When searching for equipment, specifies the minimum cargo capacity needed to haul the searcher's shipment.</p> |
| lengthFeet (int) | <p>Length of the shipment or truck deck in feet.</p> <p>Valid Values: 1 - 199</p> |
| weightPounds (int) | <p>Weight of the shipment or truck carrying capacity in pounds.</p> <p>Valid Values: 1 - 199999</p> |
| heightInches (int) | <p>Height of the shipment or truck box in inches.</p> <p>Valid Values: 1 - 299</p> |
| volumeCubicFeet (int) | <p>Volume of the shipment or truck box in cubic feet.</p> <p>Valid Values: 1 - 9999</p> |

excludeOpenDestinationEquipment (boolean)

If set true, trucks posted with a destination of Open will be excluded. On shipment searches, this element is ignored.

Note: This option is currently only supported for the CountAssetsRequest. It is ignored on the normal CreateSearchRequest and on alarms.

If omitted, defaults to false.

EquipmentClass

Valid Values

Dry Bulk

Containers

Decks, Standard

Decks, Specialized

Flatbeds

Other Equipment

Reefers

Tankers

Vans, Standard

Vans, Specialized

Hazardous Materials

Conestoga

StateProvince

Valid Values

AB

AG

AK

AL

AS

AZ

AR

BC
BJ
BS
CA
131
CH
CI
CL
CO
CP
CT
CU
DC
DE
DF
DG
EM
FL
GA
GJ
GR
GU
HG
HI
IA
ID
IL
IN

JA
KS
KY
LA
MA
MB
MD
ME
MH
MI
MN
MO
MR
MS
MT
NA
NE
NL
132
NV
NB
NH
NJ
NM
NY
NF
NC
ND

NT
NS
NU
OA
OH
OK
ON
OR
PA
PE
PQ
PR
PU
QA
QR
RI
SC
SD
SI
SK
SL
SO
TA
TL
TM
TN
TX
UT

VA

VI

VL

VT

133

WA

WV

WI

WY

YC

YT

ZT

Zone

Valid Values

New England

North East

Mid-Atlantic

South East

Mid-West

North Central

Central

South

Mountain

West

Canada

Western Canada

Eastern Canada

Central Canada

Mexico

Northern Mexico

Contiguous USA

GeoCriteria

One of:

| | |
|-----------------------|--|
| area | Search for postings matching a set of states and/or zones. |
| stateProvinces | A list of states and/or provinces in the desired region. See StateProvince |
| zones | A list of one or more zones in the desired region. See Zone |
| radius | Search for postings within a radius of a specific point. The radius measurement defaults to road mileage, but that default can be overridden to specify air mileage if desired. The API will enforce DAT limitations on maximum radii. |
| place | Specifies the target location at the center of the search radius. See Place |
| radius | Radius around the search location. |
| miles (int) | Mileage. Valid Values: 0 - |
| method | Mileage calculation method. Valid Values: Air , Road , RoadProMiles , RoadAlk |
| open | Search for any postings, regardless of geography. Note that either an origin or destination must be provided. Open ! open searches are not supported. |

Search

| | |
|-----------------------------|--|
| searchId (string) | The historically unique ID assigned to this search by the Freight Matching Service. Length: 0 - 8 |
| status | The current status of this search. |
| userId (int) | The ID of the owner of this freight matching entity. Valid Values: 0 - |
| startDate (dateTime) | When this entity becomes active. Valid Values: 2003-01-01T00:00:00.000Z - |

| | |
|---------------------------|---|
| endDate (dateTime) | When this entity is no longer active. Valid Values: 2003-01-01T00:00:00.000Z - |
| created | When this entity was created. |
| user (int) | |
| date (dateTime) | |
| updated | When this entity was last updated. Will initially be set to the same as 'created'. |
| user (int) | |
| date (dateTime) | |
| lastModified | When this entity was last modified. I.e., the latter of 'created' and 'updated'. |
| user (int) | |
| date (dateTime) | |
| expired (boolean) | True if this asset has expired and is no longer visible in searches. |
| specification | The search criteria used for this search. See SearchCriteria |
| MatchingAsset | |
| asset | The matching asset. See Asset |
| tripMileage | The total mileage (and how it was computed: road or air miles) of the one-way origin ! destination trip. Omitted if the origin and destination are not both points. |
| miles (int) | Mileage. Valid Values: 0 - |
| method | Mileage calculation method. Valid Values: Air , Road , RoadProMiles , RoadAlk |
| originDeadhead | Deadhead mileage from the origin of the searcher to the origin of the asset, i.e., from the current origin of a truck, to the origin of the shipment. If deadhead mileage cannot be computed (e.g., origin is not a point), then this item is omitted. |
| miles (int) | Mileage. Valid Values: 0 - |
| method | Mileage calculation method. |

| | |
|----------------------------------|--|
| | Valid Values: <code>Air</code> , <code>Road</code> , <code>RoadProMiles</code> , <code>RoadAlk</code> |
| <code>destinationDeadhead</code> | Deadhead mileage from the destination of the searcher to the destination of the asset. i.e., from the current destination of a truck, to the destination of the shipment. If deadhead mileage cannot be computed (e.g., destination is not a point), then this item is omitted. |
| miles (int) | Mileage. Valid Values: 0 - |
| method | Mileage calculation method. Valid Values: <code>Air</code> , <code>Road</code> , <code>RoadProMiles</code> , <code>RoadAlk</code> |
| <code>callback</code> | Callback information on the poster of the matching as-set, so the searcher can contact the poster. |
| userId (int) | The ID of the user that posted this asset. Valid Values: 0 - |
| One of: | |
| phone | |
| phone | See <code>PhoneNumber</code> |
| email | |
| email (string) | |
| name | The first and last name of the poster. |
| firstName (string) | |
| middleName (string) | |
| lastName (string) | |
| title (string) | |
| prefix (string) | |
| suffix (string) | |
| initials (string) | |
| companyName (string) | The full 50-char name of the company to which the poster belongs. Length: 0 - 50 |
| displayCompany (string) | The short 8-char name of the company to which the poster belongs. Length: 0 - 8 |

| | |
|---------------------------------------|--|
| postersStateProvince | The state/province in which the poster resides. See <code>StateProvince</code> |
| creditScore | Credit score of the poster's company |
| score (int) | |
| daysToPay (int) | |
| scoreTimeStamp (dateTime) | |
| thirdPartyInfo | Third party information on the poster's company. |
| rmisGreenLight (boolean) | |
| nmftaMember (boolean) | |
| ooidaMember (boolean) | |
| tiaP3Member (boolean) | |
| assurable (boolean) | |
| rivieraGreenLight (boolean) | |
| dotIds | DOT ID information (DOT #, Docket #s, etc.) |
| dotNumber (long) | |
| brokerMcNumber (int) | |
| carrierMcNumber (int) | |
| freightForwarderMcNumber (int) | |
| mexicoMcNumber (int) | |
| PhoneNumber | |
| countryCode (string) | Country code |
| number (string) | The primary number |
| extension (string) | Extension |
| AlarmSearchCriteria | |
| originRadius | Radius around the asset's origin. |
| miles (int) | Mileage. Valid Values: 0 - |
| method | Mileage calculation method. Valid Values: <code>Air</code> , <code>Road</code> , <code>RoadProMiles</code> , <code>RoadAlk</code> |

| | |
|---------------------------------|---|
| destinationRadius | Radius around the asset's destination. If the asset has a non-Point destination (e.g., an Equipment with an Area/Empty destination), then this field should be omitted; it will be ignored anyway. |
| miles (int) | Mileage. Valid Values: 0 - |
| method | Mileage calculation method. Valid Values: Air, Road, RoadProMiles, RoadAlk |
| ageLimitMinutes (int) | If this is non-zero, then the Alarm will do an initial live lookback-search, for assets that are no older than the specified number of minutes. If set to zero or omitted, then no initial lookback-search will be performed. NOTE: if an alarm is being created as part of a PostAsset, then this field has no effect: an initial lookback search is not possible when posting an asset. Valid Values: 0 - 5940 |
| maxMatches (int) | Maximum number of matches to return over the lifetime of this alarm. Default is 25 matches. Valid Values: 0 - 3000 |
| lifetimeMinutes (int) | Lifetime of this alarm. If omitted the lifetime will default to system policy. Actual lifetimes are subject to system policies, particularly for end-of-day termination. Valid Values: 1 - 1440 |
| referenceId (string) | Client-supplied reference ID. This ID will be included in all alarm notifications generated by this alarm. If this alarm-specific <code>referenceId</code> is left unspecified, the <code>referenceId</code> of the associated asset will be used instead (if that <code>referenceId</code> is specified). Note that the API will not enforce any uniqueness constraints on <code>referenceId</code> (unlike <code>postersReferenceId</code> on a posting). Length: 0 - 8 |
| notifyAllApplications (boolean) | If set to true, match, cancellation, and termination notifications produced by this alarm will be sent not only to the application creating the alarm, but also to any other applications into which the recipient (the alarm owner or members of the owner's sharing group) is currently logged in. |

This attribute should only be used in the rare scenarios in which sharing alarm matches across multiple applications is desirable.

Defaults to false.

RatedLane

originGeography (string) A human-readable description of the origin area used to compute the rate estimate. E.g., '982 Postal Code', 'Houston Market Area', 'Western Canada'.

This element is provided as an additional means for a user to evaluate the significance of the rate estimate, but may be removed in the future as DAT's rating algorithms evolve to utilize data from outside specific market areas and to incorporate long-term patterns.

Note: Rate providers generally do not compute lane rates based on point-to-point rates, but rather on geographical areas that contain the requested points. This lane may differ from the requested point-to-point lane because of how the rate provider associates postal codes with cities (especially for suburban neighborhoods in larger urban areas) or due to city name abbreviation standards.

destinationGeography (string) A human-readable description of the destination area used to compute the rate estimate. See `originGeography`.

Request / Response Layout and Error Handling

SOAP provides a Fault type, a standard mechanism for handling severe errors. The Web Service Interoperability specifications require that SOAP faults be returned in certain circumstances, including XML Schema validation failure (e.g., providing an alphanumeric string in an element defined to be floating-point). The API follows the WSI requirements and returns a SOAP fault in such cases. Most client-side libraries translate a SOAP Fault into an exception of some sort and report it to the calling code.

SOAP allows considerable flexibility for handling of less-severe errors. Many requests support multiple contained operations. For example, a PostAsset request can contain a batch of up to 100 separate postings. In this case, the SOAP Fault mechanism is inappropriate - some postings might succeed while others fail, and the client needs accurate error reporting for each posting in a batch.

To accommodate this case, the API requests follow a hierarchical structure and depend on a consistent naming convention. Each request/response pair is named according to the `XYZRequest / XYZResponse` pattern. A Request contains one or more Operations, and the resulting Response contains a Result for each Operation.

Error Handling

It is important that you handle errors smoothly and report them appropriately to the user. Your code should check each Result for the corresponding SuccessData. If a ServiceError is included instead, log the contained error code and message and (if appropriate) report the detailed error message to the user.

Error codes and messages

Some of the possible error codes and messages returned by the API are listed below. This list is not exhaustive, but encompasses most of the likely errors. In most cases, in addition to the default message listed here, the error will include a detailed message providing more information about the specific cause of the error. For example, error 104000760 might be accompanied by a detailed message of the form "An asset with reference ID 'DS012h34' already exists".

Note: If the supplied SessionToken is expired or invalid, a SOAP Fault is returned instead of a ServiceError structure, so this list does not include an error code for an invalid session. Most SOAP client stacks will throw an exception of some sort upon receiving a SOAP Fault. Your client-side code should handle that event properly, and offer the user an opportunity to re-authenticate if appropriate.

Code Message

| | |
|-----------|---|
| 101000010 | Authentication failure |
| 104000010 | Requestor cannot access requested asset/alarm/search * |
| 104000030 | You do not have the capability to perform the requested action * |
| 104000090 | Search ID not specified |
| 104000100 | Unable to find matches. |
| 104000310 | No search ID specified |
| 104000320 | Invalid search criteria * |
| 104000330 | System Error. The user session is invalid. |
| 104000340 | Cannot create an active search. |
| 104000350 | Cannot associate active search with an alarm. |
| 104000360 | Invalid live search definition * |
| 104000400 | You do not have the capability to create searches |
| 104000700 | No asset-based alarm search criteria specified |
| 104000710 | Cannot create alarm on asset you or your group does not own * |
| 104000760 | Reference ID already exists. Please check the number and try again. Reference IDs must be unique. |
| 104000770 | Invalid availability criteria specified. Check start/end dates. |

| | |
|-----------|---|
| 104000780 | Posting not submitted. Make sure that all required fields are completed and try again. |
| 104000860 | Cannot change this item on updates * |
| 104000870 | The post/search has been cancelled or has expired and cannot be updated. |
| 104000920 | Invalid reference ID. |
| 105000021 | Unknown location. |
| 105000125 | Truckstop lookup failed |
| 105000130 | Truckstop lookup failed. Please make sure the city name is spelled correctly. |
| 105000140 | Truckstop lookup failed. Please make sure the city name or zip/postal code is valid. |
| 108000010 | You do not have the capability to create shipment searches |
| 108000020 | You do not have the capability to create equipment searches |
| 108000040 | You do not have the capability to create alarms |
| 108000060 | You do not have the capability to look up matches |
| 110000010 | You do not have the capability to look up carrier info |
| 110000020 | No CarrierWatch profile found for the specified company. |
| 110000030 | CarrierWatch is temporarily unavailable |
| 110000040 | Multiple MC numbers found for the specified company. |
| 110000050 | You do not have the capability to look up carrier info |
| 110000060 | You do not have the capability to look up private insurance information |
| 110000070 | DAT does not have private insurance information for the requested carrier |
| 111000010 | You do not have the capability to look up current spot market rates |
| 111000020 | You do not have the capability to look up historic spot market rates |
| 111000030 | You are not a rate contributor, so cannot look up your own spot market rate information |
| 111000100 | Unsupported lane type specified |
| 111000200 | No rate information available for the specified lane |

FAQ

Where is the WSDL?

The production WSDL is at:

<http://cnx.dat.com/wsdl/TfmiFreightMatching.xsd>

The test system WSDL is available at:

<http://cnx.test.dat.com:9280/wsdl/TfmiFreightMatching.wsdl>

How should the SessionToken be used?

The intent of the LoginRequest is that you cache the resulting SessionToken and use it for multiple subsequent 'real' requests, saving the authentication and authorization time on subsequent requests. A Session Token is analogous to a session cookie in a web application, and you can generally treat it in the same way. A user can have at most one active session at a time –a login will invalidate a user's existing session.

Logging in separately for each 'real' request is not recommended. It can introduce a race condition in threaded or multi-process code that might cause you errors under load. e.g., consider these two scenarios:

This ordering is fine:

1. Thread 1 - Login (returns a session)
2. Thread 1 - PostAsset/CreateSearch/LookupCarrier/etc. (works as expected)
3. Thread 2 Login (returns a session)
4. Thread 2 PostAsset/CreateSearch/LookupCarrier/etc. (works as expected)

However, if the independent threads are scheduled differently:

1. Thread 1 - Login (returns a session)
2. Thread 2 Login (returns a session, but invalidates Thread 1's session)
3. Thread 2 PostAsset/CreateSearch/LookupCarrier/etc. (works as expected)
4. Thread 1 - PostAsset/CreateSearch/LookupCarrier/etc. (Fails with an invalid session error)

Even if your code is not threaded (or is synchronized to avoid the race condition above), the extra SOAP requests will add latency and slow down your response times, since each post or search now requires two HTTP requests over the Internet instead of one.

We recommend that you login once per day and reuse the same session token for all your subsequent requests. The session lifetime is 12 hours, so once per business day is usually sufficient. If you ever receive an invalid session error, it's appropriate (and expected) that you'll re-login to obtain a new token.

How do I specify a location?

Locations can be specified in a variety of ways. These choices are roughly in order of decreasing ambiguity:

1. Postal code only: the API will use the city+state/province assigned to this postal code.

2. City + state/province: the API will match the city + state/province against its atlas of known cities. If multiple cities of the same name exist in the state/province it will use the optional county to disambiguate.
3. Postal code + city + state/province: the API will internally use the latitude/longitude coordinates of the city assigned to the postal code, but will list the specified city + state/province on assets/searches. This option is useful when the popularly named city is not what USPS or Canada Post assigns to that postal code (e.g., 97222 is officially Portland, Oregon, but residents of that ZIP refer to their locale as Milwaukie).
4. Latitude/longitude coordinates (the API will internally assign the closest known city to those coordinates. Note that this could result in a city being selected that is not in the same state/province as the coordinates).
5. City + state/province + coordinates (The Freight Matching Service will use the city, state/province, and coordinates to resolve to a known place. If an exact match is not found, FMS will use variations in the city spelling and proximity to the coordinates to resolve. If no resolution is found, FMS will accept the specified city spelling as-is, and use the specified coordinates and state/province (although road mileages based on this city will not be possible)).

Note: places will always be returned from the system as namedCoordinates, saving the client from having to deal with the variety of choices. This applies to lookups, search results, etc.

How do you determine distance between city/state pairs and/or postal codes?

We resolve a postal code to the primary city for that code (using the USPS or Canada Post 'primary' label). Once we have a pair of known points, we compute road mileage distance between those two points.

How are city names abbreviated?

The following abbreviation rules are applied sequentially, until the abbreviated name fits in 14 characters.

1) First Words

| | |
|----------|-------|
| EAST | E |
| FORT | FT |
| GR | GRAND |
| MOUNT | MT |
| MOUNTAIN | MTN |
| NORTH | N |
| SAINT | ST |
| SAINTE | ST |
| SNTA | SANTA |

| | |
|-------|----|
| SOUTH | S |
| STE | ST |
| WEST | W |

2) Main words (not first or last in the address)

| | |
|----------------|----------------|
| CHRSTI | CHRISTI |
| ISLAND | IS |
| PNT | PT |
| POINT | PT |
| POINTE | PT |
| PRAIRIEDUCHEIN | PRAIRIEDUCHIEN |

3) Final words (last word in a multi-word city name)

| | |
|---------|---------|
| BEA | BCH |
| BEAC | BCH |
| BEACH | BCH |
| BLUFFS | BLFS |
| CENT | CTR |
| CENTER | CTR |
| CENTRE | CTR |
| CIT | CY |
| COMMER | CMMRCE |
| CREK | CK |
| CREEK | CK |
| CTH | CH |
| CUCAMON | CUCMNGA |
| FAL | FLS |
| FALL | FLS |
| FALLS | FLS |
| FURNA | FURNC |

| | |
|------------|-----------|
| GATEW | GTWY |
| HARBO | HBR |
| HEIGH | HTS |
| HEIGHT | HTS |
| HEIGHTS | HTS |
| INDUST | INDUS |
| ISLE | IS |
| JUNCTION | JCT |
| KENSINGTON | KENSINGTN |
| MILLS | MLS |
| MOUNT | MT |
| MOUNTAIN | MTN |
| PLAIN | PLNS |
| PLAINS | PLNS |
| PRUSSI | PRUSS |
| SPRIN | SPGS |
| SPRING | SPG |
| SPRINGS | SPGS |
| SPRS | SPGS |
| SPS | SPGS |
| STATIO | STA |
| STATION | STA |
| TOWNSHI | TWP |
| TOWNSHIP | TWP |
| VAL | VLV |
| VALLEY | VLV |
| VILG | VLG |
| VILL | VL |