

RoadRunner Transportation Systems, Inc.

Quick Pickup

Web Service Developer's Guide

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Quick Pickup Web Service Interface

Quick Pickup Web Service Overview

The Quick Pickup Web Service will assist established customers in submitting a request for pickup by sending general information. Multiple pickups can be submitted in 1 request and a BOL file can be submitted as well. The pickup will return the pickup terminal and contact information in case of questions.

The RRTS Quick Pickup system can be accessed via this web service or the RRTS web site. Once a pickup is sent it will be validated and approved, if not valid a response message will be returns explaining why the request was not approved. Once approved an email is automatically sent to the shipper and third party notifying them.

Authentication information is populated in the soap header. The header along with the pickup request are sent over an SSL connection. The user will receive a pickup response element back. Errors will be received back as soap faults.

The web service can be accessed at

<https://webservices.rrts.com/pickup/quickpickup.asmx>

Methods

- *GetPickupQueue* - This method returns the most recent quick pickup requests for a given user account
- *RequestPickup* - This method sends in a pickup request to the Road Runner Transportation Services System

Users should pay special attention to the SOAP header to avoid issues with defaulting the content-type to something other than text/xml, which is what our service requires:

<http://www.soapui.org/SOAP-and-WSDL/adding-headers-and-attachments.html>

Login information should be the same username/password used to login to the RRTS web site. If you do not currently have this information, you can register at

<https://www.rrts.com/Pages/Register.aspx>

Several important factors to note:

- Third Parties must upload a BOL file as part of the request. BOL files must be smaller than 4mb and can be a pdf, tiff, or Word document. The BOL file must be sent as a base 64 encoded byte array. **Please verify with RRTS help desk (helpdesk@rrts.com) that your images are coming across correctly before submitting to the production system.**
- The web service will submit requests to the RRTS test system when Production System element is set to false which does not submit requests for pickup. Once development is finished and an RRTS employee has confirmed any BOL files are coming through correctly, the Production System element should be set to true.

Note that if the Production Element is not set to true, requests will not reach the terminals for pickup!

Pickup Request Schema

The following tables contain the complex types found in the pickup request schema. Each table consists of the following:

- 1) Element – the element name.
- 2) Description – information describing the current element.
- 3) Rules – element requirements and limitations.

Element	Pickup Request			
Description	The root element for a request.			
Rules	This element is required to request a pickup			
Element Name	Type (Length)	Required	Cardinality	Description and Rules
Production System	Boolean	Yes	1	Should be true to schedule an actual pickup and false to test.
Internal Use	String	No	0..1	For RRTS internal use only.
Shipper Information	Address	Yes	1	Container of Shipper Address information. Only 1 shipper allowed.
Third Party Information	Address	No	1	Optional container of third party address information. If third party, please fill in all fields.
Pickups	Pickup	Yes	1..	Container for pickups. Can have multiple pickups in one request.

Element	Address			
Description	General Address element – can be used for shipper or third party			
Rules	One instance is required for shipper and can also contain an optional third party instance			
Element Name	Type (Length)	Required	Cardinality	Description and Rules
Contact Name	String	Yes	1	Contact Name

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Company Name	String	Yes	1	Company Name
Address 1	String	Yes	1	Address Line 1
Address 2	String	No	0..1	Address Line 2
Address 3	String	No	0..1	Address Line 3
City	String	Yes	1	City
State	String	Yes	1	State
Postal Code	String	Yes	1	Postal Code
Email Address	String	Yes	1	Used to send confirmation/rejection of shipment
Phone Number	String	Yes	1	Contact Phone Number

Element	Pickup
Description	Holds destination specific pickup information
Rules	One instance is required, but multiples can be sent. Will receive 1 email confirmation for each pickup submitted in production system.

Element Name	Type (Length)	Required	Cardinality	Description and Rules
Pickup Date	DateTime	Yes	1	YYYY-MM-DD – Example of XML Request 2016-07-27T00:00:00
Ready Time	String	Yes	1	Military Time Format ie - 01:15 or 14:30
Close Time	String	Yes	1	Military Time Format ie - 01:15 or 14:30
Destination Postal Code	String	Yes	1	Destination Postal Code
Container Type	String	Yes	1	Container type such as pallets, boxes, etc.
Pieces	Integer	Yes	1	Must be a number > 0 and < 10,000
Weight	Integer	Yes	1	Weight in pounds. Must be a number > 0
Hazmat	Boolean	No	0..1	True or False if pickup hazmat
Freezable	Boolean	No	0..1	True or False if pickup freezable
Comments	String	No	0..1	Any additional comments regarding shipment

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BOL File	Base 64 binary	No	0..1	Files should be sent in a base 64 encoded byte array. Required for third party shipments.
BOL File Name	String	No	0..1	Required if file is sent.

Example of Pickup Request XML

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
    <AuthenticationHeader
xmlns="https://webservices.rrts.com/quickpickup/">
      <UserName>demo</UserName>
      <Password>demo</Password>
    </AuthenticationHeader>
  </soap:Header>
  <soap:Body>
    <RequestPickup xmlns="https://webservices.rrts.com/quickpickup/">
      <request>
        <ProductionSystem>false</ProductionSystem>
        <ShipperInformation>
          <ContactName>Joe Brown</ContactName>
          <CompanyName>XYS Company</CompanyName>
          <Address1>123 Main Street</Address1>
          <Address2>Building 205</Address2>
          <City>Milwaukee</City>
          <State>WI</State>
          <PostalCode>53110</PostalCode>
          <EmailAddress>jbrown@xyz.com</EmailAddress>
          <PhoneNumber>414-903-4567</PhoneNumber>
        </ShipperInformation>
        <thirdPartyInformation>
          <ContactName>John Green</ContactName>
          <CompanyName>John's Logistics</CompanyName>
          <Address1>890 Fox Lane</Address1>
          <City>Manitowoc</City>
          <State>WI</State>
          <PostalCode>54220</PostalCode>
          <EmailAddress>jgreen@jl.com</EmailAddress>
          <PhoneNumber>902-123-4543 ext 45</PhoneNumber>
        </thirdPartyInformation>
        <Pickups>
          <Pickup>
            <PickupDate>2016-07-27T00:00:00</PickupDate>
            <ReadyTime>08:00</ReadyTime>
            <CloseTime>15:00</CloseTime>
            <DestinationPostalCode>90210</DestinationPostalCode>
            <ContainerType>pallets</ContainerType>
            <Pieces>15</Pieces>
            <Weight>750</Weight>
            <Hazmat>false</Hazmat>
          </Pickup>
        </Pickups>
      </request>
    </RequestPickup>
  </soap:Body>
</soap:Envelope>
```

```

    <Freezable>true</Freezable>
    <Comments>Need lift gate</Comments>
    <BOLFile>This is not a real example. A real example would
be a very long string of unreadable letters and numbers</BOLFile>
    <BOLFileName>BOL.pdf</BOLFileName>
  </Pickup>
  <Pickup>
    <PickupDate>2016-07-27T00:00:00</PickupDate>
    <ReadyTime>09:30</ReadyTime>
    <CloseTime>16:00</CloseTime>
    <DestinationPostalCode>27949</DestinationPostalCode>
    <ContainerType>boxes</ContainerType>
    <Pieces>200</Pieces>
    <Weight>400</Weight>
    <Hazmat>>false</Hazmat>
    <Freezable>>false</Freezable>
    <Comments>Residential Delivery</Comments>
    <BOLFile>Long string of letters and numbers that represent
a file in binary format</BOLFile>
    <BOLFileName>BOL2345.pdf</BOLFileName>
  </Pickup>
</Pickups>
</request>
</RequestPickup>
</soap:Body>
</soap:Envelope>

```

Example of Pickup Queue Request XML

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
    <AuthenticationHeader
xmlns="https://webservices.rrts.com/quickpickup/">
      <UserName>demo</UserName>
      <Password>demo</Password>
    </AuthenticationHeader>
  </soap:Header>
</soap:Envelope>

```

Pickup Response Schema

The following tables contain the complex types found in the quote response schema. Each table consists of the following:

- 1) Element – the element name.
- 2) Description – information describing the current element.
- 3) Rules – element requirements and limitations.

Element	Pickup Response
Description	The root element for a response
Rules	This element is required for a response

Element Name	Type (Length)	Required	Cardinality	Description and Rules
Production System	Boolean	Yes	1	Returns the ProductionSystem value that was set in the request.
Terminal Name	String	Yes	1	Name of the RRTS terminal the pickup request was assigned to
Terminal Phone	String	Yes	1	Phone Number for the terminal the request was assigned to.
Status	String	Yes	1	Provides details of the the status in request.
Pickup Detail	PickupNbrResponse	Yes	1	Container for PickupDetail. Can have multiple pickups in one request.
URL Web Service Docs	String	Yes	1	URL to find RRTS Web Service documentation on the wed.

Element	Pickup Nbr Response
Description	Used to return the RRTS assigned pickup number for an approved quick pickup.
Rules	One instance is required, but multiples can be sent. Will receive 1 email confirmation for each pickup submitted in production system.

Element Name	Type (Length)	Required	Cardinality	Description and Rules
PickupNbr	Int64	Yes	1	RRTS unique identifier for a submitted quick pickup.
Pickup Date	DateTime	Yes	1	YYYY-MM-DD – Exampl XML

				Response 2016-07-27T00:00:00
Comments	String	No	0..1	Any additional comments regarding shipment
Destination Postal Code	String	Yes	1	Destination Postal Code
Pieces	Integer	Yes	1	
Weight	Integer	Yes	1	

PickupQueue Response Schema

The following tables contain the complex types found in the quote response schema.

Each table consists of the following:

- 1) Element – the element name.
- 2) Description – information describing the current element.
- 3) Rules – element requirements and limitations.

Element	PickupQueue Response			
Description	Holds most recent pickup request information for a given user account.			
Rules	Must have a valid user account.			
Element Name	Type (Length)	Required	Cardinality	Description and Rules
Pickup Count	Integer	Yes	1	Count of pickups returned in the Queue.
Error Count	Integer	Yes	1	Count of errors returned in the Queue.
Comments	String	Yes	0..1	Any additional information about the Queue
Queue	UserQueue	Yes	1..	Container for UserQueue.

Element	User Queue Response			
Description	Holds specific pickup request information, and provided in the PickupQueue Response.			
Rules				
Element Name	Type (Length)	Required	Cardinality	Description and Rules
RequestDate	DateTime	Yes	1	Date of request.
Username	String	Yes	1	Username of account that was

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				used to make the request.
ApplicationCode	String	Yes	1	WEB - Request website. API- Request via a direct API call.
Request	PickupRequest	Yes	1	Container for Pickup Request.
Response	PickupResponse	Yes	1	Container for Pickup Response.

Example of Pickup Response XML

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <RequestPickupResponse
xmlns="https://webservices.rrts.com/quickpickup/">
      <RequestPickupResult>
        <ProductionSystem>false</ProductionSystem>
        <TerminalName>Milwaukee</TerminalName>
        <TerminalPhone>1-800-345-3456</TerminalPhone>
        <Status>THIS WAS A TEST REQUEST - IF THIS IS A PRODUCTION PICKUP
REQUEST PLEASE SET ProductionSystem=true AND RESUBMIT.</Status>
        <LinkToWebServiceDocs>https://www.rrts.com/Pages/System-
Integration.aspx</LinkToWebServiceDocs>
        <PickupDetail>
          <PickupNbrResponse>
            <PickupNbr>50000108</PickupNbr>
            <PickupDate>2016-07-14T16:26:00</PickupDate>
            <Comments>This is my first Pickup</Comments>
            <DestinationPostalCode>90040</DestinationPostalCode>
            <Pieces>2</Pieces>
            <Weight>1400</Weight>
          </PickupNbrResponse>
          <PickupNbrResponse>
            <PickupNbr>50000109</PickupNbr>
            <PickupDate>2016-07-11T16:32:00</PickupDate>
            <Comments>This is my first Pickup</Comments>
            <DestinationPostalCode>90040</DestinationPostalCode>
            <Pieces>2</Pieces>
            <Weight>2000</Weight>
          </PickupNbrResponse>
        </PickupDetail>
      </RequestPickupResult>
    </RequestPickupResponse>
  </soap:Body>
</soap:Envelope>
```

Quick Pickup Error Messages

If there are errors that stop from submitting a pickup request, these messages will be returned via a SOAP Fault. Errors that are because of data issues will have a fault code of client while issues with the system at RRTS will have a fault code of Server.

Examples of client soap faults include the following scenarios:

- Missing required data
- RoadRunner does not ship from the origin to the destination sent
- Invalid user name/password
- User is inactive
- Invalid data sent
- Quick Pickup cannot be scheduled for a weekend (Saturday/Sunday) or RRTS employee holiday because the business is closed.

A sample soap fault is below:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <soap:Fault>
      <faultcode>soap:Client</faultcode>
      <faultstring>Missing Shipper Contact Name</faultstring>
      <faultactor>QuickPickup</faultactor>
      <detail>
        <Error xmlns="https://webservices.rrts.com/pickup/">
          <ErrorNumber>99999</ErrorNumber>
          <ErrorMessage>Missing Shipper Contact Name</ErrorMessage>
          <ErrorSource>QuickPickup</ErrorSource>
        </Error>
      </detail>
    </soap:Fault>
  </soap:Body>
</soap:Envelope>
```

Errors can also occur in attempting to save the pickup on our system (it gets saved for the terminal in question in a Sharepoint list). If this happens, there will be no soap fault, and you must read the results in the return object (Pickup Response on page 4) to check for this. If this happened, Terminal Name will say:

ERROR - Pickup was NOT saved please try to submit again and contact helpdesk@rrts.com if this error continues

and Terminal Phone will say:

ERROR

Contact Information

If you have any questions regarding the web service, please contact the RRTS help desk at:

helpdesk@rrts.com or (414) 615-1644