

Dynamic Pricing Rate Quote API Guide

Table of Contents

Considerations	1
API Key	1
Dynamic Pricing Rate Quote Syntax/Example	1
Terms & Conditions	2
Dynamic Pricing Rate Quote	2
Example HTTP & CURL Requests	3
Request Body	6
Response Body	8
Example of a successful response,	8
Examples of a unsuccessful responses,	9
Request Fields	10
Response Fields	16
All Possible values for the 'stateProvince' codes:	19
HTTP status codes	22

Considerations

HTTP verbs

The Dynamic Pricing Rate Quote API follows standard HTTP and REST conventions in its use of HTTP verbs. Only the **POST** is used for this service.

Verb	Usage
POST	Used to create rate quote.

API Key

Requests to create a Dynamic Pricing Rate Quote require authentication using an API key as a URI query parameter. See example request below.

Dynamic Pricing Rate Quote Syntax/Example

[https://api.averittexpress.com/rate-quotes/dynamicpricing?
api_key=12345abc55d12345678d123d04a555c9](https://api.averittexpress.com/rate-quotes/dynamicpricing?api_key=12345abc55d12345678d123d04a555c9)

Syntax Element	Description
https://	The api requires the https protocol
api.averittexpress.com	This is the host for all of the Averitt Express rest based API's
/rate-quotes/dynamicpricing	This is the path to the Dynamic Pricing Rate Quote API.
api_key=	This is a required parameter. The api_key is specific to the user and is used for authentication.

Terms & Conditions

Dynamic Pricing Rate Quote

PLEASE NOTE THE FOLLOWING CONDITIONS of DYNAMIC PRICING QUOTES

- Reference Quote Confirmation Number and rate on bill-of-lading
- Quote is valid until expiration date
- This quote is an estimate of freight charges based on information provided
- If published pricing is applicable, quote will not apply unless pre-authorized by Averitt
- Based on equipment availability and subject to pickup at carrier convenience
- Quote is not valid if loading or unloading require more than thirty minutes
- Unless specifically noted otherwise, the governing provisions published in the AVRT 100, AVRT 115, AVRT 116, and NMF 100 in effect at the time of shipment will apply
- All charges must be billable to a United States address
- Quote will only apply if shipment characteristics match quote
- Quote will not apply on shipments weighing greater than 19,999 lbs. or occupying in excess of 20 linear feet unless specifically noted otherwise
- Quote will not apply if the shipment requires accessorial service not specified in the Quote

To schedule a pickup you can utilize the ltl pickup request api or call 800-283-7488 to speak to an associate. Please reference your quote number when scheduling your pickup.

Example HTTP & CURL Requests

This is an example that shows the fields required in a Dynamic Pricing Rate Quote request.

```
POST /rate-quotes/dynamicpricing?api_key=0000000000 HTTP/1.1
Content-Type: application/json
Accept: application/json
Content-Length: 1458
Host: api.averittexpress.com
```

```
{
  "service" : {
    "level" : "STND"
  },
  "payment" : {
    "terms" : "Prepaid",
    "payer" : "Shipper"
  },
  "transit" : {
    "pickupDate" : "20231214"
  },
  "commodities" : [ {
    "classification" : "92.5",
    "weight" : "1500",
    "length" : "48",
    "width" : "40",
    "height" : "40",
    "pieces" : "3",
    "packagingType" : "PAT",
    "description" : "Umbrellas",
    "stackable" : "Y"
  }, {
    "classification" : "50",
    "weight" : "50",
    "length" : "48",
    "width" : "48",
    "height" : "48",
    "pieces" : "5",
    "packagingType" : "PAT",
    "description" : "Soda",
    "stackable" : "N"
  } ],
  "accessorials" : {
    "codes" : [ "HAZ" ],
    "hazardousContact" : {
      "name" : "John Snow",
      "phone" : "7704865900"
    },
    "cod" : null,
    "insuranceDetails" : null,
  }
}
```

```
"sortAndSegregateDetails" : null,
"markDetails" : null
},
"origin" : {
  "account" : "1234567",
  "city" : "LEBANON",
  "stateProvince" : "TN",
  "postalCode" : "37090",
  "country" : "USA"
},
"destination" : {
  "account" : "",
  "city" : "Calgary",
  "stateProvince" : "AB",
  "postalCode" : "T1Y2S2",
  "country" : "CAN"
},
"billTo" : {
  "account" : "",
  "name" : "Bill To Company",
  "address" : "456 Bill Me Rd.",
  "city" : "LEBANON",
  "stateProvince" : "TN",
  "postalCode" : "37090",
  "country" : "USA"
}
}
```

```
$ curl 'https://api.averittexpress.com/rate-quotes/dynamicpricing?api_key=0000000000'
-i -X POST \
  -H 'Content-Type: application/json' \
  -H 'Accept: application/json' \
  -d '{
"service" : {
  "level" : "STND"
},
"payment" : {
  "terms" : "Prepaid",
  "payer" : "Shipper"
},
"transit" : {
  "pickupDate" : "20231214"
},
"commodities" : [ {
  "classification" : "92.5",
  "weight" : "1500",
  "length" : "48",
  "width" : "40",
  "height" : "40",
  "pieces" : "3",
```

```

    "packagingType" : "PAT",
    "description" : "Umbrellas",
    "stackable" : "Y"
  }, {
    "classification" : "50",
    "weight" : "50",
    "length" : "48",
    "width" : "48",
    "height" : "48",
    "pieces" : "5",
    "packagingType" : "PAT",
    "description" : "Soda",
    "stackable" : "N"
  } ],
  "accessorials" : {
    "codes" : [ "HAZ" ],
    "hazardousContact" : {
      "name" : "John Snow",
      "phone" : "7704865900"
    },
    "cod" : null,
    "insuranceDetails" : null,
    "sortAndSegregateDetails" : null,
    "markDetails" : null
  },
  "origin" : {
    "account" : "1234567",
    "city" : "LEBANON",
    "stateProvince" : "TN",
    "postalCode" : "37090",
    "country" : "USA"
  },
  "destination" : {
    "account" : "",
    "city" : "Calgary",
    "stateProvince" : "AB",
    "postalCode" : "T1Y2S2",
    "country" : "CAN"
  },
  "billTo" : {
    "account" : "",
    "name" : "Bill To Company",
    "address" : "456 Bill Me Rd.",
    "city" : "LEBANON",
    "stateProvince" : "TN",
    "postalCode" : "37090",
    "country" : "USA"
  }
}'

```

Request Body

This is an example that shows all possible request input fields and two line items.

```
{
  "service" : {
    "level" : "STND"
  },
  "payment" : {
    "terms" : "Prepaid",
    "payer" : "Shipper"
  },
  "transit" : {
    "pickupDate" : "20231214"
  },
  "commodities" : [ {
    "classification" : "92.5",
    "weight" : "1500",
    "length" : "48",
    "width" : "40",
    "height" : "40",
    "pieces" : "3",
    "packagingType" : "PAT",
    "description" : "Umbrellas",
    "stackable" : "Y"
  }, {
    "classification" : "50",
    "weight" : "50",
    "length" : "48",
    "width" : "48",
    "height" : "48",
    "pieces" : "5",
    "packagingType" : "PAT",
    "description" : "Soda",
    "stackable" : "N"
  } ],
  "accessorials" : {
    "codes" : [ "HAZ" ],
    "hazardousContact" : {
      "name" : "John Snow",
      "phone" : "7704865900"
    },
    "cod" : null,
    "insuranceDetails" : null,
    "sortAndSegregateDetails" : null,
    "markDetails" : null
  },
  "origin" : {
    "account" : "1234567",
    "city" : "LEBANON",
```

```
"stateProvince" : "TN",
"postalCode" : "37090",
"country" : "USA"
},
"destination" : {
  "account" : "",
  "city" : "Calgary",
  "stateProvince" : "AB",
  "postalCode" : "T1Y2S2",
  "country" : "CAN"
},
"billTo" : {
  "account" : "",
  "name" : "Bill To Company",
  "address" : "456 Bill Me Rd.",
  "city" : "LEBANON",
  "stateProvince" : "TN",
  "postalCode" : "37090",
  "country" : "USA"
}
}
```

Response Body

The payload returned includes the rate quote number and additional information.

Example of a successful response,

```
{
  "transactionId" : "7687bcff-312d-49b9-afd9-029658c48e45",
  "scac" : "AVRT",
  "quote" : {
    "quoteId" : "DPD10TCSE",
    "effectiveDate" : "20231214",
    "expirationDate" : "20231224"
  },
  "shipmentInfo" : {
    "weight" : "1550.0",
    "totalCharge" : "0.00"
  },
  "service" : {
    "level" : "STND",
    "description" : "Standard"
  },
  "accessorials" : [ {
    "code" : "HAZ",
    "description" : "Hazardous material",
    "chargeAmount" : "31.50"
  }, {
    "code" : "HCDA",
    "description" : "Canadian Cross Border Fee",
    "chargeAmount" : "25.00"
  } ],
  "commodities" : [ ],
  "transit" : {
    "pickupDate" : "20231214",
    "estimatedDeliveryDate" : "20231221",
    "estimatedTransitDays" : "5",
    "movementTypeDestination" : "INDIRECT",
    "movementTypeOrigin" : "DIRECT",
    "movementType" : "INDIRECT"
  },
  "messageStatus" : {
    "status" : "PASS",
    "code" : "10000000",
    "message" : "Transaction was successful.",
    "resolution" : "",
    "information" : [ ]
  }
}
```

Examples of a unsuccessful responses,

Note that only the 'messageStatus' object is returned for 'FAIL' responses.

```
{
  "messageStatus" : {
    "status" : "FAIL",
    "code" : "isValidAccountNumber1",
    "message" : "The Origin.Account field contains blank input and this field is
required when the Payment.Payer is 'Shipper'.",
    "resolution" : "Provide the Origin.Account field with a valid 7 digit Averitt
account number. Refer to the Dynamic Pricing API guide
(https://tools.averitt.com/secure/api-dashboard).",
    "information" : [ ]
  }
}
```

```
{
  "messageStatus" : {
    "status" : "FAIL",
    "code" : "NOTAUTHORIZED",
    "message" : "The account provided is not setup to allow Dynamic Pricing rate
quotes.",
    "resolution" : "Please contact Averitt Express 1-877-281-7131 to request access to
Dynamic Pricing rate quotes.",
    "information" : [ ]
  }
}
```

```
{
  "messageStatus" : {
    "status" : "FAIL",
    "code" : "isValidOrigin1",
    "message" : "The Origin json object is missing from the input data and it is
required.",
    "resolution" : "Provide the missing Origin json object. Refer to the Dynamic
Pricing API guide (https://tools.averitt.com/secure/api-dashboard).",
    "information" : [ ]
  }
}
```

Request Fields

The table below describes the Dynamic Pricing Rate Quote input structure and all the possible fields.

Path	Type/Required/Size	Description
service	Object Required N/A - object identifier	Marks the start of a nested JSON object called 'service' that holds information about the type of service being requested. This object identifier is required.
service.level	String Required must be STND	The level of service requested. 'STND' - Standard is currently the only service level supported by Averitt. This field is required.
payment	Object Required N/A - object identifier	Marks the start of a nested JSON object called 'payment' that holds payment information. This object identifier is required.
payment.terms	String Required see valid values	Indicates who will be invoiced for the shipment. Valid values are 'Prepaid', 'Collect', and 'Third Party'. Prepaid - Shipper will be invoiced for freight charges. Collect - Consignee will be invoiced for freight charges. Third Party - Third Party will be invoiced for freight charges. This field is required.
payment.payer	String Required see valid values	Corresponds to the Customer Type. Indicates which party has the account with Averitt and indicates which JSON object to look for the Averitt Account number. Valid values are 'Shipper', 'Consignee', and 'Third Party'. Shipper - Indicates that the Averitt Account number will be on the Origin object. Consignee - Indicates that the Averitt Account number will be on the Destination object. Third Party - Indicates that the Averitt Account number will be on the BillTo object. This field is required.
transit	Object Optional N/A - object identifier	Marks the start of a nested JSON object called 'transit' that holds transit date information. This object identifier is optional. The Pickup Date is the only field in this object. If the 'transit' object is omitted or is null then the current date will be used as the Pickup Date.
transit.pickupDate	String Optional YYYYMMDD	Indicates the date you desire the freight to be picked up and shipped. This field is optional. If the Pickup Date is omitted or is blank then the current date will be used.

Path	Type/Required/Size	Description
commodities[]	Array Required N/A - array identifier	Marks the start of an Array of shipment details. Please enter the information for each commodity in your shipment. This array identifier is required. At least one array element is required.
commodities[].classification	String Optional see valid values	Enter the freight class (NMFC) for this line item. Freight class is a standardized classification system for commodities transported via less-than-truckload (LTL) freight shipping. This field is optional. Valid values are: '50', '55', '60', '65', '70', '77.5', '85', '92.5', '100', '110', '125', '150', '175', '200', '250', '300', '400', '500'.
commodities[].weight	String Required 7 Max	Enter the weight of the line item. The total weight of the commodity in pounds. This field is required.
commodities[].length	String Required 3 Max	Enter the length of the line item in inches. This field is required.
commodities[].width	String Required 3 Max	Enter the width of the line item in inches. This field is required.
commodities[].height	String Required 3 Max	Enter the height of the line item in inches. This field is required.
commodities[].pieces	String Required 5 Max	Enter the number of packing type units. This field is required.
commodities[].packagingType	String Required see valid values	Enter how the commodity/line item is packaged. This field is required. Valid values are: 'PAT' for pallet and 'LSE' for loose.
commodities[].description	String Optional 256 Max	Enter a description for this line item. Basically what is it? This field is optional but if provided, should not exceed a length of 256 characters.
commodities[].stackable	String Required see valid values	Enter 'Y' if the packaging type may be stacked vertically on top of each other. This field is required. Valid values are: 'Y' or 'N'.

Path	Type/Required/Size	Description
accessorials	Object Conditional N/A - object identifier	Marks the start of a nested JSON object called 'accessorials' that holds accessorials related information. This object identifier is optional if there are no accessorials required.
accessorials.codes []	String Required see valid values	Marks the start of an Array of accessorial codes. This is an array of accessorial code Strings. Each code corresponds to a desired service. This array identifier is required if the above accessorials object is supplied and at least one array element is required. The valid values supported by Averitt are: 'MNC' Arrival Notify, 'EBD' Convention Center Delivery Charge, 'CNSTD' Construction Site Delivery, 'HAZ' Hazardous Materials, 'IDL' Inside Delivery, 'LFTP' Liftgate Pickup, 'LFTD' Liftgate Delivery, 'LTDAD' Noncommercial/Limited Access Delivery, and 'RES' Residential Delivery
accessorials.hazardousContact	Object Conditional N/A - object identifier	Marks the start of a nested JSON object called 'hazardousContact' that holds HAZMAT contact information. This object identifier is optional even if one of the elements in the above accessorials.code array is 'HAZ' (Hazardous Materials).
accessorials.hazardousContact.name	String Optional 50 Max	Indicates the HAZMAT emergency contact's name. This field is optional even if the 'hazardousContact' JSON object tag is supplied.
accessorials.hazardousContact.phone	String Optional 50 Max	Indicates the HAZMAT emergency contact's phone number. This field is optional even if the 'hazardousContact' JSON object tag is supplied.
accessorials.cod	Object Conditional N/A - object identifier	Marks the start of a nested JSON object called 'cod' that holds cod information. This object identifier is not supported at this time. Omit this object or set it to null.
accessorials.cod	Object Conditional N/A - object identifier	Marks the start of a nested JSON object called 'insuranceDetails' that holds insurance details information. This object identifier is not supported at this time. Omit this object or set it to null.
accessorials.insuranceDetails	Object Conditional N/A - object identifier	Marks the start of a nested JSON object called 'insuranceDetails'. This object identifier is not supported at this time. Omit this object or set it to null.

Path	Type/Required/Size	Description
accessorials.sortAndSegregateDetails	Object Conditional N/A - object identifier	Marks the start of a nested JSON object called 'sortAndSegregateDetails'. This object identifier is not supported at this time. Omit this object or set it to null.
accessorials.markDetails	Object Conditional N/A - object identifier	Marks the start of a nested JSON object called 'markDetails'. This object identifier is not supported at this time. Omit this object or set it to null.
origin	Object Required N/A - object identifier	Marks the start of a nested JSON object called 'origin' that contains information about the origin. This object identifier is required.
origin.account	String Conditional blank or 7 Max/MIN	A 7 digit Averitt customer account number. This field is required if the 'payment.payer' field is 'Shipper'. The user ID you logged in with must have access to this account.
origin.city	String Required 40 Max	The origin city of the shipment. This field is required.
origin.stateProvince	String Required 2 Min, 3 Max	The origin state or province of the shipment. This field is required and must be a valid code (see the list of valid state/province codes below).
origin.postalCode	String Required 6 Max	The origin postalCode of the shipment. This field is required.
origin.country	String Required 3 Max/Min	The origin country of the shipment. This field is required. Valid values are: 'USA', 'MEX', and 'CAN'.
destination	Object Required N/A - object identifier	Marks the start of a nested JSON object called 'destination' that contains information about the destination. This object identifier is required.
destination.account	String Conditional blank or 7 Max/MIN	A 7 digit Averitt customer account number. This field is required if the 'payment.payer' field is 'Consignee'. The user ID you logged in with must have access to this account.

Path	Type/Required/Size	Description
destination.city	String Required 40 Max	The destination city of the shipment. This field is required.
destination.stateProvince	String Required 2 Min, 3 Max	The destination state or province of the shipment. This field is required and must be a valid code (see the list of valid state/province codes below).
destination.postalCode	String Required 6 Max	The destination postalCode of the shipment. This field is required.
destination.country	String Required 3 Max/Min	The destination country of the shipment. This field is required. Valid values are: 'USA', 'MEX', and 'CAN'.
billTo	Object Required N/A - object identifier	Marks the start of a nested JSON object called 'billTo' that contains information about the paying party. This object identifier is required.
billTo.account	String Conditional blank or 7 Max/MIN	A 7 digit Averitt customer account number. This field is required if the 'payment.payer' field is 'ThirdParty'. The user ID you logged in with must have access to this account.
billTo.name	String Required 40 Max	The bill to company name for the shipment. This field is required.
billTo.address	String Required 40 Max	The bill to street address for the shipment. This field is required.
billTo.city	String Required 40 Max	The bill to city for the shipment. This field is required.
billTo.stateProvince	String Required 2 Min, 3 Max	The bill to state or province for the shipment. This field is required and must be a valid code (see the list of valid state/province codes below).
billTo.postalCode	String Required 6 Max	The bill to postalCode for the shipment. This field is required.

Path	Type/Required/Size	Description
billTo.country	String Required 3 Max/Min	The bill to country for the shipment. This field is required. Valid values are: 'USA', 'MEX', and 'CAN'.

Response Fields

Path	Type	Description
transactionId	String	The transactionId is a unique identifier associated with this request.
scac	String	The scac is a 4-letter, Standard Carrier Alpha Code, representing a carrier.
quote	Object	Marks the start of a nested JSON object called 'quote' that holds the quoted ID and date information.
quote.quoteId	String	Carrier-provided unique identifier for this price request
quote.effectiveDate	String	The effective date of the quote. Valid format: YYYYMMDD
quote.expirationDate	String	The expiration date of the quote. Valid format: YYYYMMDD
shipmentInfo	Object	Marks the start of a nested JSON object called 'shipmentInfo' that holds total weight and total charge information.
shipmentInfo.weight	String	The total weight of the shipment in pounds.
shipmentInfo.totalCharge	String	The freight charge including accessorials and/or discounts.
service	Object	Marks the start of a nested JSON object called 'service' that holds the service level information.
service.level	String	Matches the level passed in on the request.
service.description	String	Reflects the description of the service level.
accessorials[]	Array	Marks the start of an Array of accessorials. This array contains the accessorials requested and their corresponding charge amounts.
accessorials[].code	String	The Accessorial code supplied in the request.
accessorials[].description	String	The description of the above Accessorial code.

Path	Type	Description
<code>accessorials[].chargeAmount</code>	String	The charge amount corresponding to the above Accessorial code. If no charge amount can be found then an empty string will be returned.
<code>commodities[]</code>	Array	Marks the start of an Array of commodities. This array is not supported at this time. Expect it to return an empty array.
<code>transit</code>	Object	Marks the start of a nested JSON object called 'transit' that holds transit date information. This object identifier is required.
<code>transit.pickupDate</code>	String	Indicates the date the shipment is to be picked up.
<code>transit.estimatedDeliveryDate</code>	String	Estimated delivery date of the shipment.
<code>transit.estimatedTransitDays</code>	String	Estimated transit days of the shipment.
<code>transit.movementTypeDestination</code>	String	Indicates the movement type for the destination.
<code>transit.movementTypeOrigin</code>	String	Indicates the movement type for the origin.
<code>transit.movementType</code>	String	Indicates the movement type.
<code>messageStatus</code>	Object	Marks the start of a nested JSON object called 'messageStatus' that holds status information. This object identifier is required.
<code>messageStatus.status</code>	String	Indicates the status of the request. 'PASS' - quote is returned with no exceptions. 'FAIL' - quote is NOT returned due to some exception. 'WARNING' - quote is returned with some exception.
<code>messageStatus.code</code>	String	Indicates response detail code.
<code>messageStatus.message</code>	String	Provides information pertaining to the response code.
<code>messageStatus.resolution</code>	String	Provides guidance pertaining to the response code.
<code>messageStatus.information[]</code>	Array	Marks the start of an Array of information.
<code>messageStatus.information[].message</code>	String	Contains a message.

Path	Type	Description
<code>messageStatus.information[].type</code>	String	Type of data in the message.

All Possible values for the 'stateProvince' codes:

Value
AB - Alberta
AGU - Aguascalientes
AK - Alaska
AL - Alabama
AR - Arkansas
AZ - Arizona
BC - British Columbia
BCN - Baja California
BCS - Baja California Sur
CA - California
CAM - Campeche
CHH - Chihuahua
CHP - Chiapas
CMX - Mexican Federal District
CO - Colorado
COA - Coahuila
COL - Colima
CT - Connecticut
DC - District of Columbia
DE - Delaware
DUR - Durango
FL - Florida
GA - Georgia
GRO - Guerrero
GUA - Guanajuato
HI - Hawaii
HID - Hidalgo
IA - Iowa
ID - Idaho
IL - Illinois
IN - Indiana
JAL - Jalisco

Value
KS - Kansas
KY - Kentucky
LA - Louisiana
MA - Massachusetts
MB - Manitoba
MD - Maryland
ME - Maine
MEX - Mexico
MI - Michigan
MIC - Michoacan
MN - Minnesota
MO - Missouri
MOR - Morelos
MS - Mississippi
MT - Montana
NAY - Nayarit
NB - New Brunswick
NC - North Carolina
ND - North Dakota
NE - Nebraska
NH - New Hampshire
NJ - New Jersey
NL - Newfoundland and Labrador
NLE - Nuevo Leon
NM - New Mexico
NS - Nova Scotia
NT - Northwest Territories
NU - Nunavut
NV - Nevada
NY - New York
OAX - Oaxaca
OH - Ohio
OK - Oklahoma
ON - Ontario
OR - Oregon
PA - Pennsylvania

Value
PE - Prince Edward Island
PR - Puerto Rico
PUE - Puebla
QC - Quebec
QUE - Queretaro
RI - Rhode Island
ROO - Quintana Roo
SC - South Carolina
SD - South Dakota
SIN - Sinaloa
SK - Saskatchewan
SLP - San Luis Potosi
SON - Sonora
TAB - Tabasco
TAM - Tamaulipas
TLA - Tlaxcala
TN - Tennessee
TX - Texas
UT - Utah
VA - Virginia
VER - Veracruz
VT - Vermont
WA - Washington
WI - Wisconsin
WV - West Virginia
WY - Wyoming
YT - Yukon
YUC - Yucatan
ZAC - Zacatecas

HTTP status codes

Status code	Meaning
201 Created	The rate quote has been created successfully.
422 Bad Request	The user input was missing or invalid.
500 Internal Server Error	There was an unexpected server error occurred processing the user's request.