

BOL API Guide

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Considerations

HTTP verbs

The BOL API follows standard HTTP and REST conventions. Only the **POST** is used for this service.

Verb	Usage
POST	Used to create a BOL

API Key

Requests to create a BOL require authentication using an API key as a URI query parameter. See example request below.

BOL Create Syntax/Example

https://api.averittexpress.com/shipment/bols?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.
/shipment/bols	This is the path to the BOL Create API.
api_key=	This is a required parameter. The api_key is specific to the user and is used for authentication.

Example HTTP Requests

```
POST /shipment/bols?api_key=0000000000 HTTP/1.1
Content-Type: application/json
Host: api.averittexpress.com
Content-Length: 2187
```

```
{
  "customerId" : "ABC",
  "recordId" : {
    "bolId" : "ALINUM123",
    "proNumber" : "0030034568",
    "returnPro" : "N"
  },
  "terms" : "PREPAID",
  "quote" : "sp111122",
  "shipper" : {
    "accountId" : "0868557",
    "name" : "TEST ACCOUNT",
    "address1" : "1415 NEAL ST",
    "address2" : "PO BOX 3166",
    "city" : "Cookeville",
    "state" : "TN",
    "zip" : "38501",
    "contactName" : "Donald Duck",
    "contactPhone" : "5555555555"
  },
  "consignee" : {
    "accountId" : "87654321",
    "name" : "The Electric Company",
    "address1" : "25 RailWay Road",
    "address2" : "Box 2",
    "city" : "Dallas",
    "state" : "TX",
    "zip" : "75208",
    "contactName" : "Morgan Freeman",
    "contactPhone" : "7777777777"
  },
  "billTo" : {
    "accountId" : "87654321",
    "name" : "The Electric Company",
    "address1" : "25 RailWay Road",
    "address2" : "Box 2",
    "city" : "Dallas",
    "state" : "TX",
    "zip" : "75208",
    "contactName" : "Morgan Freeman",
    "contactPhone" : "7777777777"
  },
}
```

```

"delivery" : {
  "request" : "DELIVER BETWEEN",
  "date1" : "2018-10-08",
  "date2" : "2018-10-08",
  "liftgate" : "Y",
  "insideDelivery" : "Y",
  "callBeforeDelivery" : "Y",
  "callBeforeHours" : 0,
  "residential" : "Y",
  "appointment" : "Y",
  "arrivalNotify" : "Y"
},
"cod" : {
  "amount" : 100.0,
  "payableTo" : "Donald Duck",
  "cashOrCheck" : "COMPANY CHECK ACCEPTABLE",
  "paidBy" : "CONSIGNEE",
  "remittanceName" : "Donald Duck",
  "remittanceAddress1" : "555 Get Out St.",
  "remittanceAddress2" : "",
  "remittanceCityStateZip" : "Beverly Hills, CA 90210"
},
"hazmat" : {
  "emergencyContact" : "Donald Duck",
  "emergencyPhone" : "5555555555"
},
"details" : [ {
  "pieces" : 3,
  "weight" : 145.0,
  "nmfcNumber" : 100000,
  "nmfcSubCategory" : 10,
  "description1" : "Screw drivers tools",
  "class" : "77.5"
}, {
  "pieces" : 1,
  "description1" : "Testing",
  "hazmatCode" : "UN1173"
} ],
"additionalDetails" : [ {
  "code" : "PFF",
  "comment" : "Do not freeze."
} ]
}

```

Response

```
HTTP/1.1 201 Created
Server: nginx/1.17.10
Date: Sun, 26 Jul 2020 16:25:25 GMT
Content-Type: application/json
Transfer-Encoding: chunked
Cache-Control: no-cache, private
```

Request Fields

Path	Type/Required/Size	Description
customerId	String Optional 10 Max	Customer Id.
recordId	Object Required must be {	Marks that start of a JSON object that contains Record ID Information.
recordId.bolId	String Required 10 Max	This is your unique record identifier that you create and assign to this BOL.
recordId.proNumber	String Optional 10 Max	If provided must be a pre-assigned Averitt pro number of 10 digits.
recordId.returnPro	String Required see valid values	Must be either "Y" or "N" to indicate a PRO Number should or should not be generated and returned.
terms	String Required see valid values	Must be either "PREPAID" or "COLLECT" to indicate payer of freight charges.
quote	String Optional 20 Max	Provide this information if you have an Averitt quote number or promo code.
shipper	Object Required must be {	Marks that start of a JSON object that contains Shipper Information.
shipper.accountId	String Optional 7/8 Min/Max	If provided this is your Averitt account id and if supplied, may overwrite shipper's address
shipper.name	String Required 30 Max	The shipper's name.
shipper.address1	String Required 30 Max	The shipper's address line 1.

Path	Type/Required/Size	Description
shipper.address2	String Optional 30 Max	The shipper's address line 2.
shipper.city	String Required 20 Max	The shipper's city.
shipper.state	String Required 2 Max/Min	The shipper's 2 character state code.
shipper.zip	String Required 6 Max	The shipper's zip code.
shipper.contactName	String Optional 30 Max	The contact name for the shipper.
shipper.contactPhone	String Optional 10 digit Max	The contact phone number for the shipper. Default is 0.
consignee	Object Required must be {	Marks that start of a JSON object that contains Consignee Information.
consignee.accountId	String Optional 7/8 Min/Max	If provided this is your Averitt account id and if supplied, may overwrite consignee's address
consignee.name	String Required 30 Max	The consignee's name.
consignee.address1	String Required 30 Max	The consignee's address line 1.
consignee.address2	String Optional 30 Max	The consignee's address line 2.

Path	Type/Required/Size	Description
consignee.city	String Required 20 Max	The consignee's city.
consignee.state	String Required 2 Max/Min	The consignee's 2 character state code.
consignee.zip	String Required 6 Max	The consignee's zip code.
consignee.contactName	String Optional 30 Max	The contact name for the consignee.
consignee.contactPhone	String Optional 10 digit Max	The contact phone number for the consignee. Default is 0.
billTo	Object Optional must be {	Marks that start of an optional JSON object that contains Bill-To Information.
billTo.accountId	String Optional 7/8 Min/Max	If provided this is your Averitt account id and if supplied, may overwrite bill-to's address
billTo.name	String Required 30 Max	The bill-to's name.
billTo.address1	String Required 30 Max	The bill-to's address line 1.
billTo.address2	String Optional 30 Max	The bill-to's address line 2.
billTo.city	String Required 20 Max	The bill-to's city.

Path	Type/Required/Size	Description
billTo.state	String Required 2 Max/Min	The bill-to's 2 character state code.
billTo.zip	String Required 6 Max	The bill-to's zip code.
billTo.contactName	String Optional 30 Max	The contact name for the bill-to.
billTo.contactPhone	String Optional 10 digit Max	The contact phone number for the bill-to. Default is 0.
delivery	Object Optional must be {	Marks that start of an optional JSON object that contains Delivery Information.
delivery.request	String Optional see valid values	Optional, and works in tandem with "date1" and "date2", however if supplied must include a requested delivery date or delivery window. Valid values are: i) "DELIVER ONLY ON" if supplied must include a valid date in ISO 8601 format within "date1" example data format "YYYY-MM-DD" ii) "DELIVER BY" and must include a valid date iii) "DELIVER BETWEEN" must include two valid dates. These dates are only a guideline and does not guarantee delivery on these dates.
delivery.date1	String Optional YYYY-MM-DD	To be used with delivery date or delivery window. See delivery.request.
delivery.date2	String Optional YYYY-MM-DD	To be used with delivery window. See delivery.request.
delivery.liftgate	String Optional Y, N or blank(N)	If a liftgate is required then enter Y.
delivery.insideDelivery	String Optional Y, N or blank(N)	If an inside delivery is required then enter Y.

Path	Type/Required/Size	Description
delivery.callBeforeDelivery	String Optional Y, N or blank(N)	If a call before delivery is requested then enter Y. When appropriate, Averitt will attempt to contact consignee when a phone number is provided.
delivery.callBeforeHours	Number Optional see valid values	If a call before delivery is requested x hours before delivery then enter a value. Valid values are 0, 24, 48, or 75 hours (Numeric).
delivery.residential	String Optional Y, N or blank(N)	If delivery is to a residence then enter Y.
delivery.appointment	String Optional Y, N or blank(N)	If delivery appointment is requested then enter Y.
delivery.arrivalNotify	String Optional Y, N or blank(N)	If delivery arrival notify is requested then enter Y.
cod	Object Optional must be {	Marks that start of an optional JSON object that contains Cash On Delivery (COD) Information. Cash on Delivery is optional, however all "cod" elements except "remittanceAddress2" are required when "cod.amount" is supplied
cod.amount	String Optional must be a monetary string	Provide this information when Averitt is to collect payment for goods upon Delivery or set to a default of 0
cod.payableTo	String Conditional 30 Max	Collected funds will be made payable to.
cod.cashOrCheck	String Conditional see valid values	Indicates your preferred payment and must be either: "Cash or Certified Funds", "Company Check Acceptable". Averitt does not collect cash for funds greater than \$250.
cod.paidBy	String Conditional see valid values	"SHIPPER" when collection fee will be paid by the shipper. "CONSIGNEE" when collection fee will be paid by the consignee.
cod.remittanceName	String Conditional 30 Max	Remittance Name

Path	Type/Required/Size	Description
cod.remittanceAddress1	String Conditional 30 Max	Remittance Address Line 1
cod.remittanceAddress2	String Optional 30 Max	Remittance Address Line 2
cod.remittanceCityStateZip	String Optional 30 Max	Remittance City, State ZIP line
hazmat	Object Optional must be {	Required only when freight is HAZMAT.
hazmat.emergencyContact	String Required 30 Max	Emergency contact name for HASMAT.
hazmat.emergencyPhone	String Required 10 Max	Emergency contact phone number for HASMAT. If emergency phone is not provided a default of Chemtrek 800-424-9300 will be applied to hazmat freight
details[]	Array Required N/A - array identifier	Marks the start of an array of JSON objects that contain freight details about each of the shipment items. There must be at least one item in the array.
details[].pieces	Number Required 99999 is Max value	Number of pieces for the shipment item.
details[].class	String Conditional see valid values	Class for the shipment. Optional numeric of 3 digits with one decimal, and when not required should be set to a default of 0, however "class" is required when "weight" is greater than 0. List of Available Freight Class are listed below.
details[].weight	Number Conditional 99999 is Max value	Total weight for the shipment item. Five digit numeric. Set to a default of 0, however "weight" is required when an "class" is provided.
details[].nmfcNumber	Number Required 999999 is Max	The NMFC Number for the shipment item. Six digit numeric and set to a default of 0 if unknown.

Path	Type/Required/Size	Description
details[].nmfcSubCategory	Number Required 99 is Max	The NMFC Sub Number for the shipment item. Two digit numeric and works in tandem with nmfcNumber
details[].description1	String Required 35 Max	The description line 1 of the freight item.
details[].description2	String Optional 35 Max	The description line 2 of the freight item.
details[].description3	String Optional 35 Max	The description line 3 of the freight item.
details[].description4	String Optional 35 Max	The description line 4 of the freight item.
details[].hazmatCode	String Optional use valid HAZMAT code	The HAZMAT code for the freight item.
additionalDetails[]	Array Optional N/A - array identifier	Marks the start of an array of JSON object that contains additional details about the entire shipment. Optional section. Up to 30 can be added. See 'Codes' section for more details.
additionalDetails[].code	String Optional use valid Shipment code	Shipment Code. Maximum of 6 characters.
additionalDetails[].comment	String Conditional 35 Max	Comment related to 'code'. Required if 'code' is specified.
bol[]	Array Optional N/A - array identifier	Marks the start of an array of BOL Number strings so additional BOLs can be added. Up to 30 additional BOLs can be specified.

Path	Type/Required/Size	Description
bol[].bolNumber	String Optional 35 Max	Additional BOL to add.
po[]	Array Optional N/A - array identifier	Marks the start of an array of PO Number strings so additional POs can be added. Up to 30 additional POs can be specified.
po[].poNumber	String Optional 35 Max	Additional PO to add.

Codes

These can be specified by the "additionalDetails[].codes". (See Request Fields above.)

The codes include the following.

- "BL" : Provide shipper's BOL numbers
- "PO" : Provide Purchase order numbers
- "DNBS" : DO NOT BREAK SHRINKWRAP
- "DNDS" : *DO NOT DOUBLE STACK*
- "FRAG" : FRAGILE, HANDLE WITH CARE
- "HANDLE" : HANDLE WITH CARE
- "HAT" : *HOLD AT TERMINAL*
- "HOT" : HOT==HOT==HOT==HOT==HOT==HOT==HOT
- "JACK" : PALLET JACK REQUIRED
- "PFF" : PROTECT FROM FREEZING
- "SI" : Used for special Instructions
- "REFN" : "Ref #" then your reference number.
- "OVL8" : OVER LENGTH CHG 8 LESS THAN 12 FT
- "OVL12" : OVER LENGTH CHG 12 LESS THAN 16 FT
- "OVL16" : OVER LENGTH CHG 16 LESS THAN 20 FT
- "OVL20" : OVER LENGTH CHG 20 LESS THAN 24 FT

HTTP status codes

Status code	Usage
201 OK	The freight bill was created successfully
400 Bad Request	The request could not be understood.
404 Not Found	The requested resource did not exist.
422 Unprocessable Entity	The contained instructions could not be processed.

Errors / Messages

Whenever an error response (status code ≥ 400) is returned, the body may contain a JSON object that describes the problem.

HTTP Status	Request Field	Messages
400		Pro used in api request has already been used
400		COD Amount is invalid
400		Pro used in api request is not a valid Averitt PRO number
400		Consignee AccountID is not a valid Averitt account number
400		Code used within additional detail is an invalid code
422	cod.cashOrCheck	The cod.cash or check must be CASH OR CERTIFIED FUNDS or COMPANY CHECK ACCEPTABLE.
422	cod.paidBy	The cod.paid by or check must be SHIPPER or CONSIGNEE.
422	cod.payableTo	The cod.payable to field is required when cod is present.
422	cod.remittanceAddress1	The cod.remittance address1 field is required when cod is present.
422	cod.remittanceName	The cod.remittance name field is required when cod is present.
422	delivery.appointment	The delivery.appointment is invalid. It must be Y or N.
422	delivery.arrivalNotify	The delivery.arrivalNotify is invalid. It must be Y or N.
422	delivery.callBeforeHours	The delivery.callBeforeHours is invalid. It must be 0, 24, 48, 72.
422	delivery.date1	The delivery.date1 field is required when delivery.request is present.
422	delivery.date2	The delivery.date2 field is required when delivery.request is DELIVER BETWEEN.
422	delivery.request	The request must be DELIVER ONLY ON, DELIVER BY, or DELIVER BETWEEN.
422	delivery.residential	The delivery.residential is invalid. It must be Y or N.
422	details.0.weight	The details.0.weight field is required when details.0.class is present.
422	details.0.description1	The details.0.description1 field is required.
422	details.0.nmfcNumber	The details.0.nmfcNumber must be 6 digits.
422	details.0.nmfcSubCategory	The details.0.nmfcSubCategory must be 2 digits.
422	hazmat.emergencyContact	The hazmat.emergency contact field is required when hazmat.emergency phone is present.

HTTP Status	Request Field	Messages
422	hazmat.emergencyPhone	The hazmat.emergency phone field is required when hazmat.emergency contact is present.
422	recordId.bolId	The record id.bol id field is required.
422	shipper.name	The shipper.name field is required.
422	consignee.name	The consignee.name field is required.
422	billTo.name	The bill to.name field is required when bill to is present.
422	terms	The terms must be PREPAID or COLLECT.

Examples

A **400 Bad Request** will be returned if ...

the `api_key` is missing or the JSON payload / body is missing.

E.g.

```
HTTP/1.1 400 Bad Request
```

the `PRO` in the request has already been used.

E.g.

```
HTTP/1.1 400 Bad Request
Content-Type: application/json;charset=UTF-8
Content-Length: 51

[ "Pro used in api request has already been used" ]
```

A **422 Unprocessable Entity** will be returned when ...

invalid delivery information is used

E.g.

```
HTTP/1.1 422 Unprocessable Entity
Content-Type: application/json;charset=UTF-8
Content-Length: 776

{
  "delivery.date1" : [ "The delivery.date1 field is required when delivery.request is present." ],
  "delivery.date2" : [ "The delivery.date2 field is required when delivery.request is DELIVER BETWEEN." ],
  "delivery.liftgate" : [ "The delivery.liftgate is invalid. It must be Y or N." ],
  "delivery.insideDelivery" : [ "The delivery.insideDelivery is invalid. It must be Y or N." ],
  "delivery.callBeforeHours" : [ "The delivery.callBeforeHours is invalid. It must be 0, 24, 48, 72." ],
  "delivery.residential" : [ "The delivery.residential is invalid. It must be Y or N." ],
  "delivery.appointment" : [ "The delivery.appointment is invalid. It must be Y or N." ],
  "delivery.arrivalNotify" : [ "The delivery.arrivalNotify is invalid. It must be Y or N." ]
}
```

an invalid weight is used

E.g.

```
HTTP/1.1 422 Unprocessable Entity
Content-Type: application/json;charset=UTF-8
Content-Length: 106

{
  "details.0.weight" : [ "The details.0.weight field is required when details.0.class
is present." ]
}
```

invalid COD information is used

E.g.

```
HTTP/1.1 422 Unprocessable Entity
Content-Type: application/json;charset=UTF-8
Content-Length: 482

{
  "cod.payableTo" : [ "The cod.payable to field is required when cod is present." ],
  "cod.cashOrCheck" : [ "The cod.cash or check must be CASH OR CERTIFIED FUNDS or
COMPANY CHECK ACCEPTABLE." ],
  "cod.paidBy" : [ "The cod.paid by or check must be SHIPPER or CONSIGNEE." ],
  "cod.remittanceName" : [ "The cod.remittance name field is required when cod is
present." ],
  "cod.remittanceAddress1" : [ "The cod.remittance address1 field is required when cod
is present." ]
}
```

invalid details are used

E.g.

```
HTTP/1.1 422 Unprocessable Entity
Content-Type: application/json;charset=UTF-8
Content-Length: 252

{
  "details.0.description1" : [ "The details.0.description1 field is required." ],
  "details.0.nmfcNumber" : [ "The details.0.nmfcNumber must be 6 digits." ],
  "details.0.nmfcSubCategory" : [ "The details.0.nmfcSubCategory must be 2 digits." ]
}
```

invalid hazmat information is used

E.g.

```
HTTP/1.1 422 Unprocessable Entity  
Content-Type: application/json;charset=UTF-8  
Content-Length: 126
```

```
{  
  "hazmat.emergencyPhone" : [ "The hazmat.emergency phone field is required when  
hazmat.emergency contact is present." ]  
}
```