



# Auto Insurance Prefill API Reference

January 2023



# Auto Insurance Prefill API Reference

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## Summary of new features and enhancements - January 2023

We have included a VIN Decoder for convenience in capturing all information from a VIN.

### Addition of VIN Decoder

Returns automobile information for the requested VIN with a GET method to the endpoint `/v1/vindecoder/`.

#### VIN Decoder Response

Field	Type	Description
requestID	string	example: 1420f134-26c6-41ce-b187-d03f767c7f25
submissionID	string	Returns the value from request header or if the value is not set in the header, then the unique identifier for the request.
status	string	Status of decoding. <ul style="list-style-type: none"><li>- Success</li><li>- Failure</li></ul>
matchDescription	string	Returns a description of the match logic used to find this VIN.
make	string	Returns the make of the vehicle
model	string	Returns the model of the vehicle
modelYear	string	Returns the model year of the vehicle
trim	string	Returns the vehicle's name-based trim style, as defined by the manufacturer; for example, "Hybrid" or "LX"
vehicleType	string	Returns the type of vehicle
bodyClass	string	Returns the body class of the vehicle
vinDetails	string	Returns additional details about the VIN

## POST autoprefill

The Fenris Digital suite of prefill APIs provides the data and scores that inform insurance coverage decisions, evaluate risk, and improve the experience of applying for, rating, and servicing insurance accounts. The prefill APIs save research time and minimize fillable form content errors by returning applicant data as filled-in form fields for a client (applicant) to confirm, instead of requiring the client to manually complete forms. This approach improves form accuracy and streamlines the application phase.

Use the Personal Lines Auto Prefill API (autoprefill) to quickly and accurately populate automobile coverage application forms.

### Endpoint

<https://api.fenrisd.com/services/personal/v1/autoprefill/search>

### Request

This section describes the headers and request body for the autoprefill API.

#### Headers

Field	Type	Description
Content-Type	application/json	The body is in JSON format, using UTF-8 character encoding.
Authorization	Bearer <<token>>	The header includes a Bearer token for authentication.
Submission-Id	string	Passthrough field containing a client-specified identifier to tie back to client data and systems. If the client does not define this value, an auto-generated field is used.

#### Sample Headers

- Content-Type: application/json
- Authorization: bearer <token>
- Submission-Id: abcd-efgh-ijkl

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### Request body fields

Field	Type	Description
responseType	string	<ul style="list-style-type: none"><li>• M (Default) - Return only base data.</li><li>• C - Return base data and VIN data (enhancedVehicle).</li></ul>
person	string	Required – Details about the insured person: <ul style="list-style-type: none"><li>• firstName – Required: Insured's first name</li><li>• middleName – Optional: Insured's middle name</li><li>• lastName – Required: Insured's family name or surname</li><li>• dateOfBirth – Optional: Primary insured's date of birth in MM/DD/YYYY format</li></ul>
address	string	Required – Details about the insured's address: <ul style="list-style-type: none"><li>• addressLine1 – Required: Standard street and unit address elements</li><li>• addressLine2 – Optional: Additional address information appended to address line if present.</li><li>• city – Required if no zipCode is present: City or zipCode are required.</li><li>• state – Required: Two-character state abbreviation</li><li>• zipCode – Required if no city is present: Five-digit USPS® postal code</li></ul>

### Sample request body - response type M, base product response

```
{
  "responseType": "M",
  "person": {
    "firstName": "Josh",
    "lastName": "Veerland",
    "dateOfBirth": "04/05/1961"
  },
  "address": {
    "addressLine1": "5656 Grant Ct",
    "city": "Silver City",
    "state": "NM",
    "zipCode": "88061"
  }
}
```

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### Sample request body - response type C, including enhancedVehicles

```
{
  "responseType": "C",
  "person": {
    "firstName": "Josh",
    "lastName": "Veerland",
    "dateOfBirth": "04/05/1961"
  },
  "address": {
    "addressLine1": "5656 Grant Ct",
    "city": "Silver City",
    "state": "NM",
    "zipCode": "88061"
  }
}
```

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### Response

This section outlines the responses returned by a call to POST autoprefill.

#### Body

Field	Type	Options
status	string	Returns the status of the search: Usually SUCCESS or NOT FOUND
matchDescription	string	Indicates the match strategy that provided the returned information: <ul style="list-style-type: none"><li>• <b>Not Found</b> – Found no match in both standard data or the registered vehicle lookup</li><li>• <b>Success</b> - Matched both the standard data and the registered vehicle lookup</li><li>• <b>Success - No VIN</b> - Matched the standard data but found no registered vehicles</li><li>• <b>VIN Return Only</b> – Found registered vehicles but did not match the standard data</li><li>• <b>Multiple Match</b> – Found more than one value in the standard data</li><li>• <b>Success - Restricted State</b> – Found a match in the standard data; Did not attempts a vehicle lookup because the requested information comes from a restricted state</li><li>• <b>Not Found - Restricted State</b> – Found no match in the standard data; Did not attempts a vehicle lookup because the requested information comes from a restricted state</li></ul>
requestId	string	Returns an Internally generated unique ID used for auditing and support
submissionID	string	Returns a client-supplied identifier that ties back to client data or systems. If not supplied, the requestID is used.
primary	PNI	Returns data about the Primary Named Insured and the household: see Parameters - PNI for details.
drivers	[drivers]	Returns an array of data about the drivers at this location; See Driver for details.

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vehicles	[vehicles]	Return and array of cars associated with this household; See Vehicle for details.
vehiclesEnhanced	[enhancedVehicles]	Returns an array of vehicle information including VIN and registration; see Enhanced Vehicle for details.

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### PNI

Field	Type	Options
Gender	string	Return one of the following: <ul style="list-style-type: none"><li>• Male</li><li>• Female</li><li>• Non-binary</li><li>• Unknown</li></ul>
marital Status	string	Returns on of the following: <ul style="list-style-type: none"><li>• Married</li><li>• Single</li><li>• Unknown</li></ul>
memberCode	string	Returns on of the following: <ul style="list-style-type: none"><li>• Primary Household Member</li><li>• Secondary Household Member</li><li>• Other Household Member</li></ul>
parsedAddress	address	Return the address for this record
homeOwnerStatus	string	Returns on of the following: <ul style="list-style-type: none"><li>• Definite</li><li>• Probably renter</li><li>• Owner</li><li>• Unknown</li></ul>
lengthOfResidence	string	Describes the length of time at the current residence; for example, "6-10 yrs".
numberOfGenerations	integer	Provides the number of distinct generations present in the household.

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presenceOf16Or17YearOlds	boolean	Does this household contain 16- or 17-year-olds?
babyBoomer	boolean	Does this household contain at least one person born between 1944 and 1964?
dualIncomeNoKids	boolean	Is this household made up of dual-income earners without children?
millennial	boolean	Does this household contain at least one person born between 1980 and 1994?
vehicleHouseholdNum	integer	Provides the probable number of vehicles in the household.

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### Address

Field	Type	Description
address	string	Return the standard street and unit address elements.
city	string	Returns the city for this address
state	string	Returns the two-character USPS state abbreviation
zipCode	string	Returns the five-digit postal code for this address
addressType	string	Returns the type of location for the address, for example: <ul style="list-style-type: none"><li>• Street address</li><li>• PO Box</li><li>• Rural route</li></ul> NOTE: This is not a comprehensive list of address types.

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### Driver

Field	Type	Description
firstName	string	Returns the driver's first name
middleName	string	Returns the driver's middle name
lastName	string	Returns the driver's family name or surname
dateOfBirth	string	Returns the driver's date of birth in MM/DD/YYYY format
gender	string	Returns one of the following: <ul style="list-style-type: none"><li>• Male</li><li>• Female</li><li>• Non-binary</li><li>• Unknown</li></ul>
maritalStatus	string	Returns one of the following: <ul style="list-style-type: none"><li>• Married</li><li>• Single</li><li>• Unknown</li></ul>
memberCode	string	Returns one of the following: <ul style="list-style-type: none"><li>• Primary Household Member</li><li>• Secondary Household Member</li><li>• Other Household Member</li></ul>
verificationDate	string	Returns the date of the last verification of this driver in MM/DD/YYYY format

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### Vehicle

The autoprefill request returns this information for up to seven vehicles at the household for all records.

Field	Type	Description
description	string	Returns the year, make, and model of a car in a single descriptive string; for example: "2016 Chevrolet Camaro"
year	string	Returns the model year of the vehicle
make	string	Returns the make of the vehicle
model	string	Returns the model name for the vehicle
type	string	Returns the type of vehicle, based on the state registration
fuelType	string	Returns the type of fuel used by the vehicle, such as "Electric"
mileageEstimate	string	Returns the estimated range of odometer mileage for the vehicle
marketValue	integer	Returns the value of the vehicle, in U.S. dollars
confidence	integer	Returns a value of 0 through 100, representing the likelihood that this vehicle remains owned at this household.

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### Enhanced Vehicle

The autoprefill request returns this information for customers who have purchased the VIN add-on in non-restricted states.

Field	Type	Description
vin	string	Returns the Vehicle Identification Number (VIN), a combination of 17 letters and numbers that uniquely identifies the make, model, and year of a car.
make	string	Returns the make of the vehicle
model	string	Returns the model name for the vehicle
year	string	Returns the model year of the vehicle
color	string	Returns the vehicle's paint color, as defined by the manufacturer
trim	string	Returns the vehicle's name-based trim style, as defined by the manufacturer; for example, "Hybrid" or "LX"
registeredState	string	Returns the state where the vehicle is registered, using the two character-state abbreviation
expirationDate	string	Returns the date that coverage ends, in YYYY-MM-DD format
plateType	string	Returns the state-specific vehicle license plate type, such as "permanent" or "specialty"
leaseIndicator	boolean	Returns a value that indicates whether the vehicle is leased
brandedTitleIndicator	boolean	Returns an indicator to show whether the vehicle was previously identified as a total loss
price	string	Returns the vehicle price paid by the owner, in U.S. dollars
manufacturerBasePrice	string	Returns the manufacturer's suggested vehicle base price, in U.S. dollars, based on the options, features, and other vehicle characteristics
driveSystem	string	Return the vehicle's drive system type, such as two-wheel drive or four-wheel drive

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Field	Type	Description
lastName	string	Returns the last/family name of the registered owner
givenName	string	Returns the given name or names of the registered owners
suffix	string	Returns a name suffix for the registered owner, such as "Ph.D." or "Esq"
businessName	string	Returns the name of the firm to which the vehicle is registered
entityType	string	Returns the type of insured: person, organization, or Government
ownerType	string	Returns one of the following insured vehicle owner types: <ul style="list-style-type: none"> <li>• Owner</li> <li>• Lessee</li> <li>• Doing Business As</li> <li>• Second Lien Holder</li> <li>• Dealer Name</li> <li>• Previous Owner</li> <li>• Unknown West</li> <li>• Lessor</li> <li>• Lien Holder</li> <li>• Second Owner</li> <li>• Case Of</li> <li>• Contact</li> <li>• Service Facility</li> </ul>
vinChangeIndicator	boolean	Returns an indicator to show whether the vehicle had a previous/different VIN C – VIN Change S – No VIN Change
bodyStyle	string	Returns the body style that refers to the shape and model of a manufacturer's vehicle; for example, "coupe" or "sedan"
transactionDate	string	Returns the vehicle purchase date
plateNumber	string	Returns the vehicle's current license plate number

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brandedTitleCode	string	For branded titles, this field indicates the type of branded title, based on the state of registration
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Field	Type	Description
addressType	string	Returns the type of location for the address; for example: Street address, PO Box, and Rural route <b>NOTE:</b> This is not a comprehensive list of address types.
addressLine1	string	Returns the standard street and unit address elements
city	string	Returns the city for this address
state	string	Returns the two-character USPS state abbreviation
zipCode	string	Returns the five-digit postal code for this address
weight	string	Returns the gross vehicle weight rating (GVWR) or gross vehicle mass (GVM), the maximum operating weight of a vehicle, as specified by the manufacturer

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### Registered Owner

Field	Type	Description
entityType	string	Returns the type of insured: person, organization, or Government
ownerType	string	Returns one of the following insured vehicle owner types: <ul style="list-style-type: none"><li>• Owner</li><li>• Lessee</li><li>• Doing Business As</li><li>• Second Lien Holder</li><li>• Dealer Name</li><li>• Previous Owner</li><li>• Unknown West</li><li>• Lessor</li><li>• Lien Holder</li><li>• Second Owner</li><li>• Case Of</li><li>• Contact</li><li>• Service Facility</li></ul>
givenName	string	Returns the given name or names of the registered owners
surname	string	Returns the last/family name of the registered owner
suffix	string	Returns a name suffix for the registered owner, such as "Ph.D." or "Esq"
businessName	string	Returns the name of the firm to which the vehicle is registered



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### Sample response body - request type C

See Request Body - responseType C for more information.

```
{
  "requestId": "100a5de4-5d24-4ea2-92d5-2d4fddc36b97",
  "submissionId": "100a5de4-5d24-4ea2-92d5-2d4fddc36b97",
  "status": "Multiple Match",
  "primary": {
    "gender": "Male",
    "maritalStatus": "Married",
    "memberCode": "Other Household Members",
    "parsedAddress": {
      "addressLine1": "103 GALA CT",
      "city": "LONGMONT",
      "state": "Colorado",
      "zipCode": "80503",
      "addressType": "House number and addressLine1 name present"
    },
    "homeOwnerStatus": "Definite Owner",
    "lengthOfResidence": "16-20 yrs",
    "numberOfGenerations": 3,
    "presenceOf16Or17YearOlds": false,
    "babyBoomer": true,
    "dualIncomeNoKids": false,
    "millennial": true,
    "vehicleHouseholdNum": 2
  },
  "drivers": [
    {
      "firstName": "JAY",
      "middleName": "J",
      "lastName": "VEERLAND",
      "dateOfBirth": "05/04/1961",
      "age": 58,
      "gender": "Male",
      "maritalStatus": "Married",
      "memberCode": "Other Household Members",
      "verificationDate": "05/15/2019"
    },
    {
      "firstName": "CATHERINE",
      "middleName": "L",
      "lastName": "VEERLAND",
      "dateOfBirth": "04/10/1962",
      "age": 57,
      "gender": "Female",
      "maritalStatus": "Married",
      "memberCode": "Primary Household Member",
      "verificationDate": "07/15/2019"
    },
    {
      "firstName": "KYLE",
      "middleName": "R",
```

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```
    "lastName": "VEERLAND",
    "dateOfBirth": "06/01/1995",
    "age": 24,
    "gender": "Female",
    "maritalStatus": "Single",
    "memberCode": "Other Household Members",
    "verificationDate": "11/15/2018"
  },
  "vehicles": [
    {
      "confidence": 90,
      "description": "2014 HONDA PILOT",
      "year": "2014",
      "make": "HONDA",
      "model": "PILOT",
      "type": "Utility",
      "fuelType": "Gas",
      "mileage": "0 - 10,000",
      "marketValue": 16280
    },
    {
      "confidence": 70,
      "description": "2011 ACURA RDX",
      "year": "2011",
      "make": "ACURA",
      "model": "RDX",
      "type": "Utility",
      "fuelType": "Gas",
      "mileage": null,
      "marketValue": 7800
    },
    {
      "confidence": 20,
      "description": "2002 GMC ENVOY",
      "year": "2002",
      "make": "GMC",
      "model": "ENVOY",
      "type": "Utility",
      "fuelType": "Gas",
      "mileage": null,
      "marketValue": 1650
    },
    {
      "confidence": 20,
      "description": "1997 SATURN S-SERIES",
      "year": "1997",
      "make": "SATURN",
      "model": "S-SERIES",
      "type": "Wagon",
      "fuelType": "Gas",
      "mileage": null,
      "marketValue": null
    }
  ]
}
```

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```
],
"vehiclesEnhanced": [
  {
    "vin": "vinnumber",
    "make": "Acura",
    "model": "RDX",
    "year": 2019,
    "color": "",
    "trim": "",
    "registeredState": "CO",
    "expirationDate": "2019-08-31",
    "plateType": "Unknown",
    "leaseIndicator": false,
    "brandedTitleIndicator": false,
    "price": 43480.0,
    "manufacturerBasePrice": 42600.0,
    "driveSystem": "All Wheel Drive",
    "registeredOwners": [
      {
        "surname": "VEERLAND",
        "givenName": "FREDDIE",
        "suffix": "II",
        "businessName": "",
        "entityType": "Person",
        "ownerType": "Owner"
      },
      {
        "surname": "VEERLAND",
        "givenName": "CATHERINE",
        "suffix": "",
        "businessName": "",
        "entityType": "Person",
        "ownerType": "Owner"
      }
    ]
  },
  {
    "vinChangeIndicator": "S",
    "bodyStyle": "Sport Utility Vehicle",
    "transactionDate": "2018-08-23",
    "plateNumber": "plateNumber",
    "brandedTitleCode": null,
    "addressType": "Street",
    "addressLine1": "103 GALA CT",
    "city": "LONGMONT",
    "state": "CO",
    "zipCode": "80503",
    "weight": 4026
  },
  {
    "vin": "vinnumber",
    "make": "Honda",
    "model": "PILOT",
    "year": 2014,
    "color": "",
    "trim": "EXL",
  }
]
```

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```
"registeredState":"CO",
"expirationDate":"2020-09-30",
"plateType":"Unknown",
"leaseIndicator":false,
"brandedTitleIndicator":false,
"price":35012.0,
"manufacturerBasePrice":36770.0,
"driveSystem":"All Wheel Drive",
"registeredOwners":[
  {
    "surname":"VEERLAND",
    "givenName":"CATHERINE",
    "suffix":"",
    "businessName":"",
    "entityType":"Person",
    "ownerType":"Owner"
  },
  {
    "surname":"VEERLAND",
    "givenName":"FREDDIE",
    "suffix":"II",
    "businessName":"",
    "entityType":"Person",
    "ownerType":"Owner"
  },
  {
    "surname":"VEERLAND",
    "givenName":"FREDDIE",
    "suffix":"II",
    "businessName":"",
    "entityType":"Person",
    "ownerType":"Second Owner"
  }
],
"vinChangeIndicator":"S",
"bodyStyle":"Sport Utility Vehicle",
"transactionDate":"2019-09-05",
"Number":"plateNumber",
"brandedTitleCode":null,
"addressType":"Street",
"addressLine1":"103 GALA CT",
"city":"LONGMONT",
20
"state":"CO",
"zipCode":"80503",
"weight":4550
}
]
```

### Sample response body - request type M

See Request Body - responseType M for more information.

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```
{
  "requestId": "100a5de4-5d24-4ea2-92d5-2d4fddc36b97",
  "submissionId": "100a5de4-5d24-4ea2-92d5-2d4fddc36b97",
  "status": "Multiple Match",
  "primary": {
    "gender": "Male",
    "maritalStatus": "Married",
    "memberCode": "Other Household Members",
    "parsedAddress": {
      "addressLine1": "103 GALA CT",
      "city": "LONGMONT",
      "state": "Colorado",
      "zipCode": "80503",
      "addressType": "House number and addressLine1 name present"
    },
    "homeOwnerStatus": "Definite Owner",
    "lengthOfResidence": "16-20 yrs",
    "numberOfGenerations": 3,
    "presenceOf16Or17YearOlds": false,
    "babyBoomer": true,
    "dualIncomeNoKids": false,
    "millennial": true,
    "vehicleHouseholdNum": 2
  },
  "drivers": [
    {
      "firstName": "JAY",
      "middleName": "J",
      "lastName": "VEERLAND",
      "dateOfBirth": "05/04/1961",
      "age": 58,
      "gender": "Male",
      "maritalStatus": "Married",
      "memberCode": "Other Household Members",
      "verificationDate": "05/15/2019"
    },
    {
      "firstName": "CATHERINE",
      "middleName": "L",
      "lastName": "VEERLAND",
      "dateOfBirth": "04/10/1962",
      "age": 57,
      "gender": "Female",
      "maritalStatus": "Married",
      "memberCode": "Primary Household Member",
      "verificationDate": "07/15/2019"
    },
    {
      "firstName": "KYLE",
      "middleName": "R",
      "lastName": "VEERLAND",
      "dateOfBirth": "06/01/1995",
      "age": 24,
      "gender": "Female",

```

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```
        "maritalStatus":"Single",
        "memberCode":"Other Household Members",
        "verificationDate":"11/15/2018"
    },
    ],
    "vehicles":[
        {
            "confidence":90,
            "description":"2014 HONDA PILOT",
            "year":"2014",
            "make":"HONDA",
            "model":"PILOT",
            "type":"Utility",
            "fuelType":"Gas",
            "mileage":"0 - 10,000",
            "marketValue":16280
        },
        {
            "confidence":70,
            "description":"2011 ACURA RDX",
            "year":"2011",
            "make":"ACURA",
            "model":"RDX",
            "type":"Utility",
            "fuelType":"Gas",
            "mileage":null,
            "marketValue":7800
        },
        {
            "confidence":20,
            "description":"2002 GMC ENVOY",
            "year":"2002",
            "make":"GMC",
            "model":"ENVOY",
            "type":"Utility",
            "fuelType":"Gas",
            "mileage":null,
            "marketValue":1650
        },
        {
            "confidence":20,
            "description":"1997 SATURN S-SERIES",
            "year":"1997",
            "make":"SATURN",
            "model":"S-SERIES",
            "type":"Wagon",
            "fuelType":"Gas",
            "mileage":null,
            "marketValue":null
        }
    ],
    ]
}
```

## GET vindecoder

REturns automobile information for the requested VIN.

### Endpoint

<https://api.fenrisd.com/services/personal/v1/vindecoder>

### Request

This section describes the headers and request body for the VIN decoder.

#### Headers

Field	Type	Description
Content-Type	application/json	The body is in JSON format, using UTF-8 character encoding.
Authorization	Bearer <<token>>	The header includes a Bearer token for authentication.
Submission-Id	string	Passthrough field containing a client-specified identifier to tie back to client data and systems. If the client does not define this value, an auto-generated field is used.

#### Sample Headers

- Content-Type: application/json
- Authorization: bearer <token>
- Submission-Id: abcd-efgh-ijkl

#### Request body fields

Field	Type	Description
vin	string	VIN to decode

#### Sample request body

```
{  
  "vin": "1G3NF52E3XC403652"  
}
```

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### Response

This section outlines the responses returned by a call to GET vindecoder..

#### Body

Field	Type	Description
requestID	string	example: 1420f134-26c6-41ce-b187-d03f767c7f25
submissionID	string	Returns the value from request header or if the value is not set in the header, then the unique identifier for the request.
status	string	Status of decoding. <ul style="list-style-type: none"><li>- Success</li><li>- Failure</li></ul>
matchDescription	string	Returns a description of the match logic used to find this VIN.
make	string	Returns the make of the vehicle
model	string	Returns the model of the vehicle
modelYear	string	Returns the model year of the vehicle
trim	string	Returns the vehicle's name-based trim style, as defined by the manufacturer; for example, "Hybrid" or "LX"
vehicleType	string	Returns the type of vehicle
bodyClass	string	Returns the body class of the vehicle
vinDetails	Object	Returns a set of string values. The names in the object are reported by the manufacturer and will change for depending on the year, make, and model of the vehicle. Below is one example of a return, actual results will vary and are subject to change.

#### Sample response body

```
{
  "requestId": "37455a5d-3560-4421-8daa-c8ecdc1e95d4",
  "submissionId": "37455a5d-3560-4421-8daa-c8ecdc1e95d4",
  "status": "Success",
  "matchDescription": "VIN decoded clean. Check Digit (9th position) is correct",
  "make": "RAM",
  "model": "1500",
  "modelYear": "2018",
  "trim": "DS (Single Rear Wheels)",
  "vehicleType": "TRUCK "
```



## Auto Insurance Prefill API Reference

...

```
"bodyClass": "Pickup",
"vinDetails": {
  "cabType": "Extra/Super/ Quad/Double/King/Extended",
  "manufacturerName": "FCA US LLC",
  "turbo": "Yes",
  "otherRestraintSystemInfo": "Active Seat Belt",
  "errorCode": "0",
  "steeringLocation": "Left-Hand Drive (LHD)",
  "displacement (L)": "3.0",
  "axles": "2",
  "engineManufacturer": "FCA",
  "brakeSystemType": "Hydraulic",
  "wheelSizeRear (inches)": "20",
  "keylessIgnition": "Standard",
  "wheelSizeFront (inches)": "20",
  "plantCity": "WARREN",
  "enginePower (KW)": "178.9680",
  "anti-lockBrakingSystem (ABS)": "Standard",
  "activeSafetySystemNote": "ParkSense Rear Park Assist: Standard; Remote
Keyless Entry with All-Secure: Standard; Remote Start System (N / A Manual
Transmission): Standard",
  "seatBeltType": "Manual",
  "fuelType-Primary": "Diesel",
  "engineBrake (hp) From": "240",
  "plantState": "MICHIGAN",
  "grossVehicleWeightRatingFrom": "Class 2E: 6,001 - 7,000 lb (2,722 - 3,175
kg)",
  "driveType": "4WD/4-Wheel Drive/4x4",
  "engineNumberOfCylinders": "6",
  "electronicStabilityControl (ESC)": "Standard",
  "plantCountry": "UNITED STATES (USA)",
  "numberOfSeats": "5",
  "sideAirBagLocations": "All Rows",
  "plantCompanyName": "Warren Truck Assembly",
  "tractionControl": "Standard",
  "displacement (CC)": "3000.0",
  "series": "SLT",
  "numberOfWheels": "4",
  "frontAirBagLocations": "1st Row (Driver and Passenger)",
  "engineConfiguration": "V-Shaped",
  "transmissionSpeeds": "8",
  "displacement (CI)": "183.07123228419",
  "transmissionStyle": "Automatic",
  "wheelBase (inches) From": "140.5"
}
}
```

## Authentication

Fenris Digital restricts access to its APIs and manages access tokens through an OAuth2 authorization server. The Client Credentials workflow defined by the OAuth 2 specification is the principal token manager. You will receive a Client-Id and Client Secret used to obtain an access token from the Authorization Server.

### Obtaining a token

To get a token, make this request:

Entity	Content
URL	https://auth-fenrisd.auth.us-east-1.amazoncognito.com/oauth2/token
method	POST
header	Content-Type: application/x-www-form-urlencoded Authorization: Basic <<BASIC_STRING>>  The BASIC_STRING is the Base-64 encoding of the client_id and client_secret separated by a colon. This is the standard token passed for Basic authentication with username replaced by client_id, and password replaced by client_secret. Many libraries will do this for you if you select basic authentication and set the username to your client_id and set the password to the client_secret.
body	client_id: <<Obtain from Fenris>> grant_type: client_credentials

### Sample response body – authentication request

```
{  
  "token_type": "Bearer",  
  "expires_in": 86400,  
  "access_token": "<<omitted>>",  
  "scope": "api"  
}
```

Use the value in the `access_token` field as a Bearer token in the Authorization header of the request.

**NOTE:** Access tokens are good for one day before they must be refreshed. You must submit another call to obtain a new token after the previous one expires.

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