J.D. POWER
CHROMEDATA

Competitive Compare

Integration Guide

July 2025

CONTENTS

DOCUMENT OVERVIEW

Recognizing that you may be new to the Developer Portal, this guide provides step-by-step instructions on how to make requests using the Test Client within the Portal.

The Request Object section provides examples that you can use to make requests in the Developer Portal so that you can jump start your understanding of the Compare service.

The Response Object section provides a brief description of the Compare response object and informs you about where you can go to get more information about the response.

The final section directs you to where you can get more integration information once you are ready to start developing your own application.

Related Documentation

Document	Description
API Reference	The Compare API reference is available in a Swagger UI format within the Portal. It describes the service, each endpoint, each input attribute, and each output attribute.
Portal Guide	The Portal Orientation guide provides step-by-step instructions on how to navigate and use the Portal. For example, it explains how you can make requests using the Portal's Test Client. Once you understand how to find and use the Test Client, you can use the example requests in this guide within the Test Client to send requests.
Security Guide	The Shared Secret Security Protocol document describes how to build and integrate a security token protocol into the Authorization header of the request to the service. You would need this information after you have finished testing a service in the Portal and are ready to begin your development work.

CONTACTING CLIENT SUPPORT

Client Support is available by phone toll-free at (800) 937-3661, Monday through Friday, from 6:00 a.m. to 5:00 p.m. Pacific Time, or you can reach Client Support by email at css@autodata.net. This team can help you with product support, billing questions, and other inquiries.

PRODUCT OVERVIEW

The Compare API provides a service interface allowing vehicles to be selected and compared. The endpoints in this API support both vehicle selection and the creation of the compare API.

Note: You can use the provided endpoints for vehicle selection, or you can develop the selection mechanism independent of this API.

This API has 11 endpoints:

- GET /models/primary - Returns the Primary vehicle set from which the base vehicle for a compare can be selected.
- GET /models/secondary - Returns model-level attribute and display information for secondary vehicles.
- GET models/secondary/search - Returns list of available Secondary vehicle information based on Make and Model information passed.
- GET models/secondary/years - Returns list of available secondary years based on RCRM client profile.
- GET /models/{modelCodes}/vehicles - Returns model-level attribute and display information.
- GET /vehicles/{vehicleCode}/common-competitors - Returns the common competitors for the specified primary vehicle.
- GET /media/types - Returns a list of your pre-selected media types.
- POST /image - Returns a photo compare, where vehicle photos can be compared side-by-side.
- POST /image.pdf - Returns a photo compare in PDF format.
- POST /text - Returns a text compare where vehicle features can be compared side-by-side in a grid.
- POST /text.pdf - Returns a textual feature grid compare in PDF format.

These endpoints interact with your client profile, as set up during initial configuration, and together the web service endpoints and the client profile settings determine the response from the Compare web service. For specific information about client profile settings, refer to the CDS Compare Setup Client Profile Configuration document or speak to your technical account manager (TAM).

Product Licensing

The following table describes the licensing information.

License Type	Description
Business Service (BS)	Customers can purchase the API business service and create their own user interface using the data from the service. Note – A customer can opt to use custom competitor set that compares with a primary vehicle (additional fees may apply).

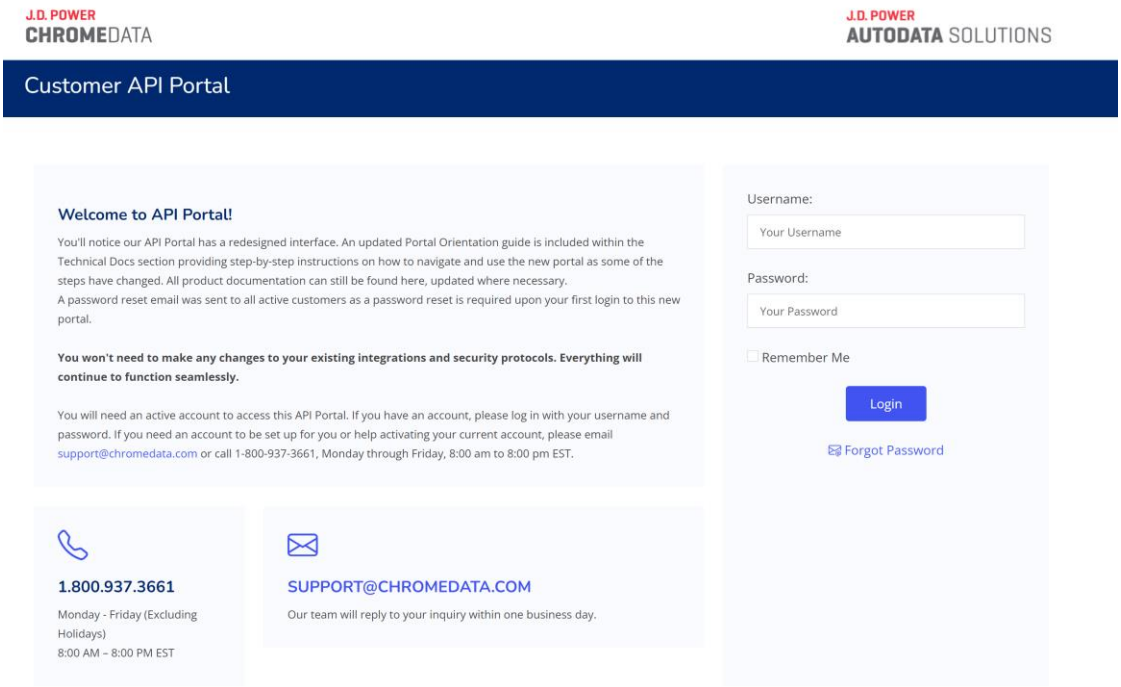
USING THE DEVELOPER PORTAL TO MAKE REQUESTS

You access and use the Compare operations using the JDP Developer Portal. There are two ways to make requests using the Portal. You can access the swagger documentation and make a request from there or preferably you can use the Test Client. This section describes how to use the Test Client.

Executing a GET Request

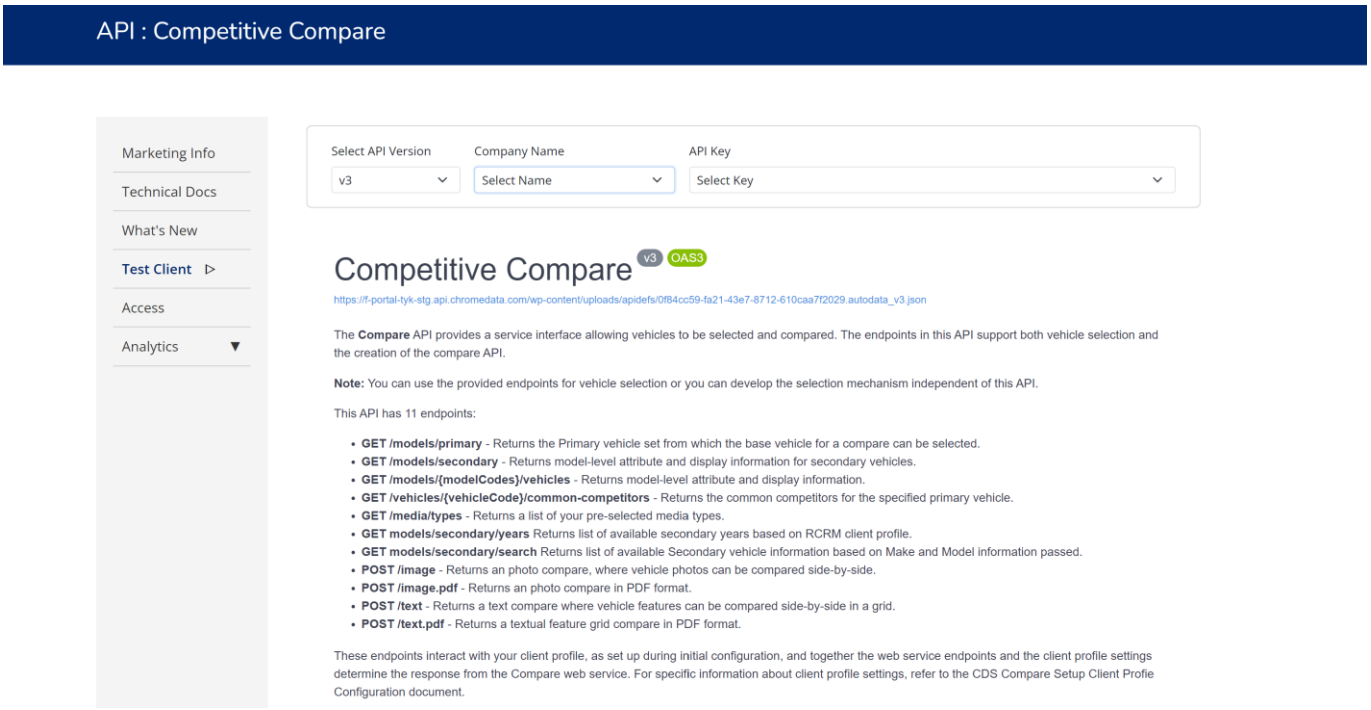
The following provides step-by-step instructions on how to make a GET request.

1. Log in to the J.D. Power API Portal: https://portal.jdpower.com/

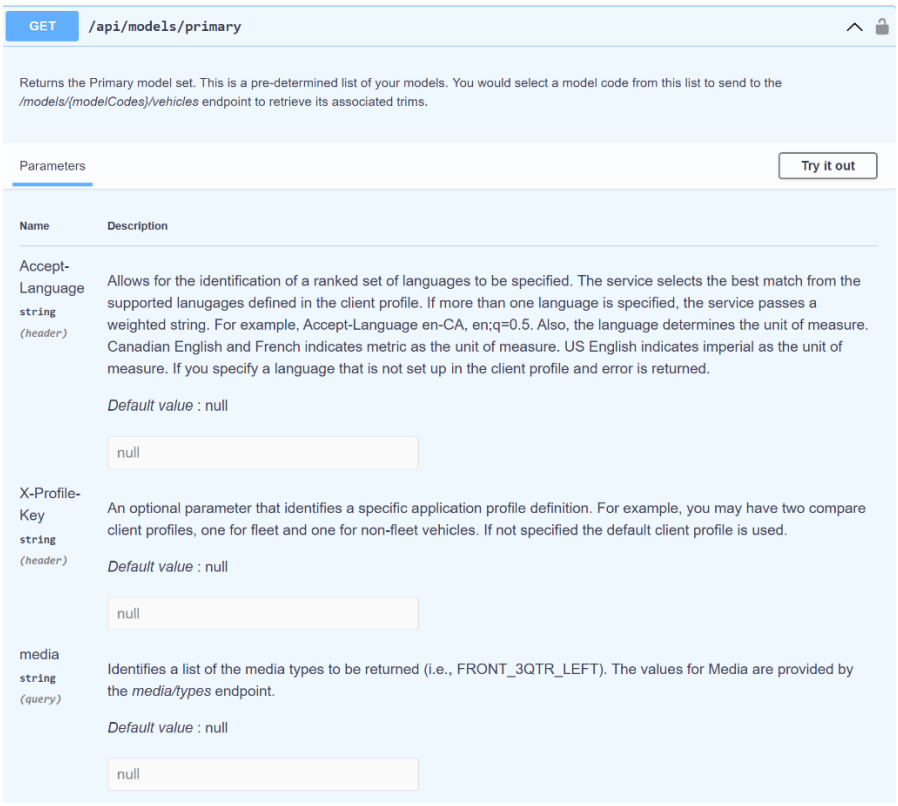


2. Find the Competitive Compare API and click the eye icon associated with it (under the Details column).

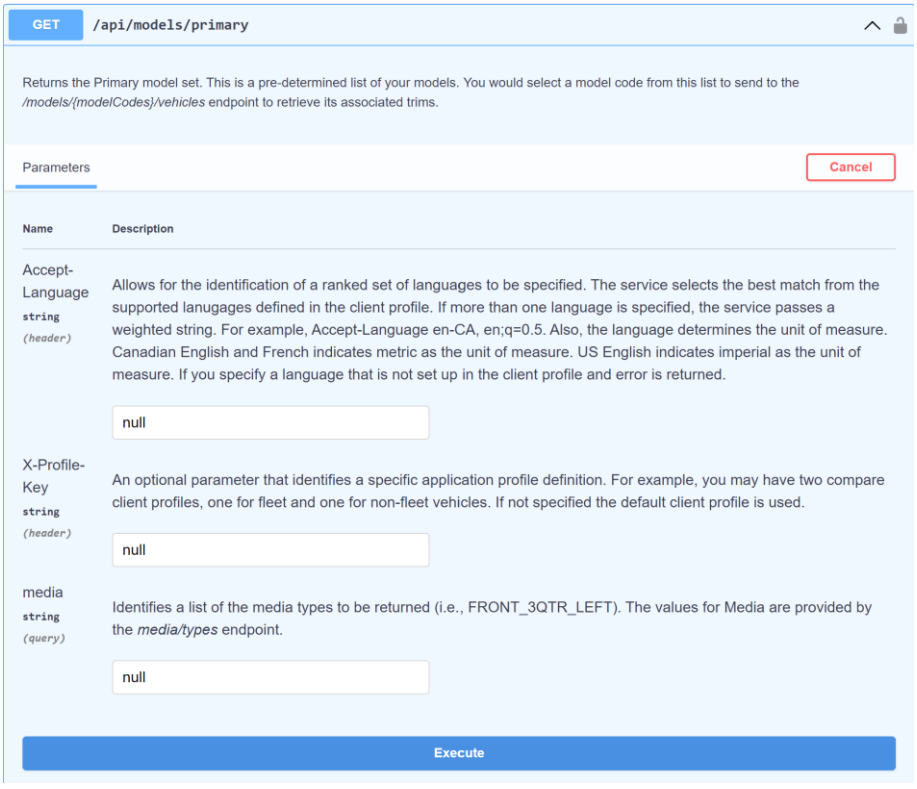
3. In the left navigation menu, click Test Client.
4. On the Test Client page, select the API Version, company name, and API Key.



5. Scroll down, select a GET operation from the list of available operations.



6. Click Try it out. The text fields are now editable.



7. Enter the relevant information into the text fields.

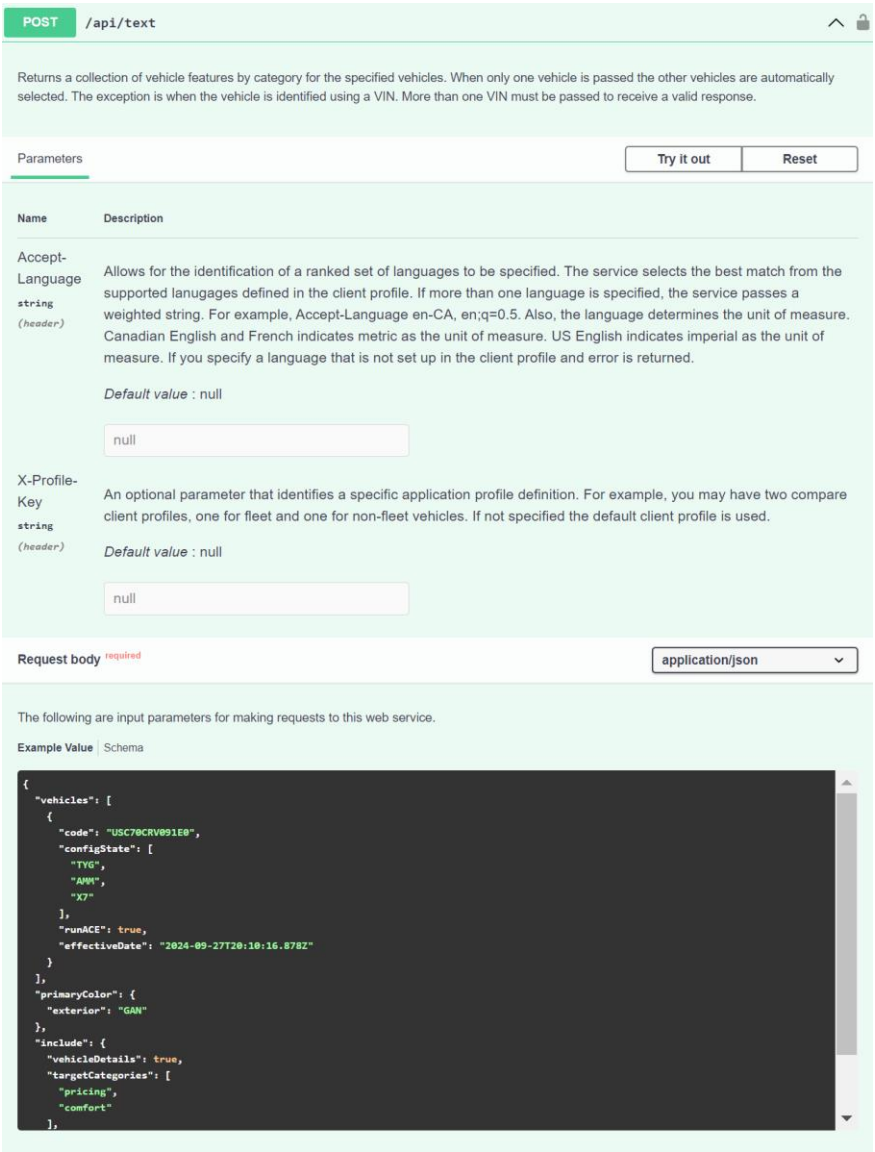
   Note: Refer to the various Operation sections later in this guide for details on the parameters for each operation.

8. Click Execute.
9. The request is sent, and response details are returned below on the page.

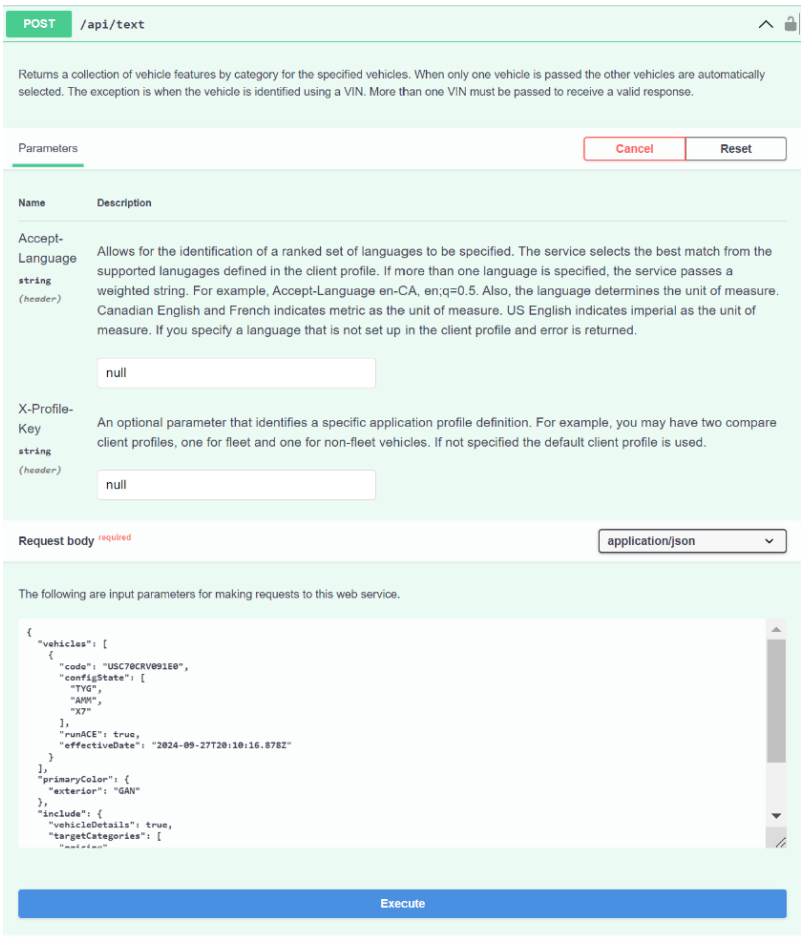
Executing a Post Request

The 1-4 steps for executing a POST request are the same as executing a GET request.

5. Scroll down, select a POST Operation from the list of available operations.



6. Click Try it out. The text fields are now editable.



7. Enter the relevant information and request parameters.

   Note: Refer to the various Operation sections later in this guide for details on the parameters for each operation.

8. Click Execute.
9. The request is sent, and response details are returned below on the page.

VEHICLE SELECTION

/api/models/primary

Method	Endpoint URL	Summary
GET	/api/models/primary	Returns the Primary model set. This is a pre-determined list of your models. You would select a model code from this list to send to the */models/{modelCodes}/vehicles** endpoint to retrieve its associated trims.

REQUEST OBJECT

The following table provides the query parameters that you can use to specify advance search criteria to fine tune scope of the search results.

Parameter	Required	Datatype	Description
Accept-Language	No	String header	Allows for the identification of a ranked set of languages to be specified. The service selects the best match from the supported languages defined in the client profile. If you specify a language that is not set up in the client profile an error is returned.
X-Profile-Key	No	String header	An optional parameter that identifies a specific application profile definition. For example, you may have two compare client profiles, one for fleet and one for non-fleet vehicles. If not specified, the default client profile is used.
media	No	String query	Identifies a list of the media types to be returned (i.e., FRONT_3QTR_LEFT). The values for Media are provided by the **media/types** endpoint.

RESPONSE OBJECT

The following table provides the attributes returned in the response.

Level	Elements	Data Type	Description
1	.filters	Object	Contains price range and segments.
2	..price	Object	Contains the price range.
3	...minMsrp	Number	Contains the minimum MSRP for a vehicle. This can be used for a Price filter.

Level	Elements	Data Type	Description
			Example: 29595
3	…maxMsrp	Number	Contains the maximum MSRP for a vehicle. This can be used for a Price filter. Example: 75955
2	..segments	Array	Contains the generic classification of vehicle. Example: Crossovers & SUVs, Hatchbacks
1	.vehicles	Array	Contains the model, pricing, and media information.
3	…code	String	Contains a unique identifier for a model for a specific year. Example: 38459
3	…year	String	Contains the vehicle model year. Example: 2023
3	…make	String	Contains the vehicle division. Example: Mazda
3	…model	String	Contains the name of a model. Example: MX-5 Miata
3	…segments	String	Contains the generic classification of a vehicle. Example: Convertibles
3	…pricing	Object	Contains the price range.
4	….minMsrp	Number	Contains the minimum MSRP for a vehicle. This can be used for a Price filter. Example: 28050
4	….maxMsrp	Number	Contains the maximum MSRP for a vehicle. This can be used for a Price filter. Example: 33550
3	…restrictions	Array	Contains any restrictions associated with a vehicle. Currently, the attribute will contain “REGIONALVEHICLE” if the vehicle is designated for sale in specific regions only. Otherwise, this attribute will be empty.
3	…media	Array	Contains the media related information.
4	….ColorizedMedia	Object	Contains the combination of a color code, media type, image type and a URL to the image.
5	…..MediaImage	Object	Contains the details about a specific media type.
6	……code	Array String	Contains the code for the image angle. Example: FRONT_3QTR_LEFT
6	……name	String	Contains a user-friendly name for an image angle. Example: Front 3/4 Left Hero

Level	Elements	Data Type	Description
6	……url	String	Contains the Universal Resource Locator (URL) to the vehicle image. Example: "https://cachedimageonthefly.autodatadirect.com/?IMG=USD20MAC261B022005.png&QUALITY=2&WIDTH=330&HEIGHT=180"
6	……imageType	String	Contains information relating to whether the image is an interior or exterior shot. Example: EXTERIOR

/api/models/secondary

Method	Endpoint URL	Summary
GET	/api/models/secondary	Returns the compare model set. This is a pre-selected subset of competitive models that can be compared against a Primary model set. You would select a model code from this list to send to the */models/{modelCodes}/vehicles* endpoint to retrieve its associated trims.

REQUEST OBJECT

The following table provides the query parameters that you can use to specify advance search criteria to fine tune scope of the search results.

Parameter	Required	Datatype	Description
Accept-Language	No	String *header*	Allows for the identification of a ranked set of languages to be specified. The service selects the best match from the supported languages defined in the client profile. If you specify a language that is not set up in the client profile an error is returned.
X-Profile-Key	No	String *header*	An optional parameter that identifies a specific application profile definition. For example, you may have two compare client profiles, one for fleet and one for non-fleet vehicles. If not specified, the default client profile is used.

RESPONSE OBJECT

The following table provides the attributes returned in the response.

Level	Elements	Data Type	Description
1	.vehicles	Array	Contains the model & pricing information.
2	...code	String	Contains a unique identifier for a model for a specific year. Example: 38459
2	...year	String	Contains the vehicle model year. Example: 2023
2	...make	String	Contains the vehicle division. Example: Mazda
2	...model	String	Contains the name of a model. Example: MX-5 Miata
2	...segments	String	Contains the generic classification of a vehicle. Example: Convertibles
2	...pricing	Object	Contains the price range.
3	...minMsrp	Number	Contains the minimum MSRP for a vehicle. This can be used for a Price filter. Example: 28050
3	...maxMsrp	Number	Contains the maximum MSRP for a vehicle. This can be used for a Price filter. Example: 33550
3	...restrictions	Array	Contains any restrictions associated with a vehicle. Currently, the attribute will contain "REGIONALVEHICLE" if the vehicle is designated for sale in specific regions only. Otherwise, this attribute will be empty.

/api/models/secondary/search

Method	Endpoint URL	Summary
POST	/api/models/secondary/search	Returns list of secondary vehicles based on what information is passed.

REQUEST OBJECT

The following table provides the query parameters that you can use to specify advance search criteria to fine tune scope of the search results.

Parameter	Required	Datatype	Description
Accept-Language	No	String *header*	Allows for the identification of a ranked set of languages to be specified. The service selects the best match from the supported languages defined in the client profile. If you specify a language that is not set up in the client profile an error is returned.
X-Profile-Key	No	String *header*	An optional parameter that identifies a specific application profile definition. For example, you may have two compare client profiles, one for fleet and one for non-fleet vehicles. If not specified, the default client profile is used.

Request body	Yes	String
		Path
			The following are input parameters for making requests to this web service:
			
			{
			"search": {
			"year": "2023",
			"make": "MA"
			}
			}

RESPONSE OBJECT

The following table provides the attributes returned in the response.

Level	Elements	Data Type	Description

1	.vehicles	Object	Contains the list of search responses.
			
			{
			"vehicles": {
			"36655": "CX-30",
			"36624": "Mazda3 Hatchback",
			"36629": "Mazda3 Sedan"
			}
			}

/api/models/secondary/years

Method	Endpoint URL	Summary
GET	/api/models/secondary/years	Returns the compare secondary years. This is a list of secondary years that has been mentioned in the RCRM profile.

REQUEST OBJECT

The following table provides the query parameters that you can use to specify advance search criteria to fine tune scope of the search results.

Parameter	Required	Datatype	Description
Accept-Language	No	String *header*	Allows for the identification of a ranked set of languages to be specified. The service selects the best match from the supported languages defined in the client profile. If you specify a language that is not set up in the client profile an error is returned.
X-Profile-Key	No	String *header*	An optional parameter that identifies a specific application profile definition. For example, you may have two compare client profiles, one for fleet and one for non-fleet vehicles. If not specified, the default client profile is used.

RESPONSE OBJECT

The following table provides the attributes returned in the response.

Level	Elements	Data Type	Description
1	.years	Array	Contains the list of years. "years": ["2021", "2022", "2023"]

/api/models/{modelCodes}/vehicles

Method	Endpoint URL	Summary
GET	/api/models/{modelCodes}/vehicles	Returns a collection of trims for the specified modelCode.

REQUEST OBJECT

The following table provides the query parameters that you can use to specify advance search criteria to fine tune scope of the search results.

Parameter	Required	Datatype	Description
Accept-Language	No	String *header*	Allows for the identification of a ranked set of languages to be specified. The service selects the best match from the supported languages defined in the client profile. If you specify a language that is not set up in the client profile an error is returned.
X-Profile-Key	No	String *header*	An optional parameter that identifies a specific application profile definition. For example, you may have two compare client profiles, one for fleet and one for non-fleet vehicles. If not specified, the default client profile is used.
media	No	String *Query*	Identifies a list of the media types to be returned (i.e., FRONT_3QTR_LEFT). The values for Media are provided by the *media/types* endpoint.
modelCodes	Yes	String *Path*	Identifies a vehicle for a specific year. The modelCode parameter refers to the code property of a model object returned by the *models/primary* and *models/secondary* endpoints.

RESPONSE OBJECT

The following table provides the attributes returned in the response.

Level	Elements	Data Type	Description
1	featureDefinitions	Object	Contains a mapping of feature code to feature value.
2	..WHEEL_BASE	String	Contains the measure of distance between the center of the front wheels and center of rear wheels.

Level	Elements	Data Type	Description
			Example: 121.6
2	..DRIVE_TYPE	String	Contains the drivetrain of the vehicle. Example: FWD
2	..BODY_TYPE	String	Contains the categorization of vehicle based on its design. Example: Passenger Van
1	vehicles	String	The unique identifier for a vehicle. Can be an ACode, StyleId, Vehicle Token, or Vin.
3	...code	String	The unique identifier for a vehicle. Example: USC70CRV091E0
3	...year	String	Contains the vehicle model year. Example: 2017
3	...make	String	Contains the vehicle division. Example: Chrysler
3	...model	String	Contains the name of a model. Example: Pacifica
3	...trim	String	Contains the vehicle trim. Example: Limited
3	...modelCode	String	Contains a unique identifier for a model for a specific year. Example: USC70CRV09
3	...variation	String	Contains the variation of the trim for that vehicle. The difference from variation to variation is determined by what is unique to that model. Typically, its visual/body related such as Doors, Drive, Cab Style, WB, Box length and so on. Example: FWD Passenger Van
3	...segments	String	Contains the generic classification of a vehicle. Example: [Vans]
3	...media	Object	Contains the media related information.
4	.... ColorizedMedia	Object	Contains the combination of a color code, media type, image type and a URL to the image.
5	..... MediaImage	String	Contains the details about a specific media type.
6	......code	String	Contains the code for the image angle. Example: FRONT_3QTR_LEFT
6	......name	String	Contains a user-friendly name for an image angle. Example: Front 3/4 Left Hero
6	......url	String	Contains the Universal Resource Locator (URL) to the vehicle image. Example: “https://cachedimageonthefly.autodatadirect.com?IMG=USD30MAS082A022000.png&QUALITY=2&WIDTH=330&HEIGHT=180"

Level	Elements	Data Type	Description
6	……imageType	String	Contains information relating to whether the image is an interior or exterior shot. Example: EXTERIOR
3	…description	String	Contains a concatenated string of year, make, model and trim. Example: 2024 Mazda CX-30 2.5 S Carbon Edition AWD
3	…features	Object	Contains a complete set of features across all trims for the specified vehicle.
4	….WHEEL_BASE	String	Contains the measure of distance between the center of the front wheels and center of rear wheels. Example: 121.6
4	….DRIVE_TYPE	String	Contains the drivetrain of the vehicle. Example: FWD
4	….BOX_LENGTH	String	Contains the length dimension of the box.
4	….BODY_TYPE	String	Contains the categorization of vehicle based on its design. Example: Passenger Van
3	…restrictions	Array	Contains any restrictions associated with a vehicle. Currently, the attribute will contain “REGIONALVEHICLE” if the vehicle is designated for sale in specific regions only. Otherwise, this attribute will be empty.
3	…pricing	Object	Contains the MSRP and freight charge.
4	….msrp	Number	Contains the minimum MSRP of all trims for the model. Example: 39050
4	….destinationCharge	Number	Contains the freight charge for the vehicle. Example: 1650

/api/vehicles/{vehicleCode}/common-competitors

Method	Endpoint URL	Summary
GET	/api/vehicles/{vehicleCode}/common-competitors	Returns the competitive set for a primary vehicle. The maximum number of competitors that are returned is determined by your client profile.

REQUEST OBJECT

The following table provides the query parameters that you can use to specify advance search criteria to fine tune scope of the search results.

Parameter	Required	Datatype	Description
Accept-Language	No	String *header*	Allows for the identification of a ranked set of languages to be specified. The service selects the best match from the supported languages defined in the client profile. If you specify a language that is not set up in the client profile an error is returned.
X-Profile-Key	No	String *header*	An optional parameter that identifies a specific application profile definition. For example, you may have two compare client profiles, one for fleet and one for non-fleet vehicles. If not specified, the default client profile is used.
media	No	String *Query*	Identifies a list of the media types to be returned (i.e., FRONT_3QTR_LEFT). The values for Media are provided by the *media/types* endpoint.
vehicleCode	Yes	String Path	Identifies a vehicle model for a specific year. This can be an Acode (i.e., CAC70CHC022F0) or a styleID (i.e., 384314). The specified vehicle becomes the base vehicle in the compare.

RESPONSE OBJECT

The following table provides the attributes returned in the response.

Level	Elements	Data Type	Description
1	featureDefinitions	Object	Contains a mapping of feature code to feature value.

Level	Elements	Data Type	Description
2	..WHEEL_BASE	String	Contains the measure of distance between the center of the front wheels and center of rear wheels. Example: 121.6
2	..DRIVE_TYPE	String	Contains the drivetrain of the vehicle. Example: FWD
2	..BODY_TYPE	String	Contains the categorization of vehicle based on its design. Example: Passenger Van
1	vehicles	Array	Contains the information for a vehicle
3	...code	String	The unique identifier for a vehicle. Can be an ACode, StyleId, Vehicle Token, or Vin. Example: USC70CRV091E0
3	...year	String	Contains the vehicle model year. Example: 2017
3	...make	String	Contains the vehicle division. Example: Chrysler
3	...modelCode	String	Contains a unique identifier for a model for a specific year. Example: USC70CRV09
3	...model	String	Contains the name of a model. Example: Pacifica
3	...trim	string	Contains the vehicle trim. Example: Limited
3	...variation	String	Contains the variation of the trim for that vehicle. The difference from variation to variation is determined by what is unique to that model. Typically, its visual/body related such as Doors, Drive, Cab Style, WB, Box length and so on. Example: FWD Passenger Van
3	...segments	Array	Contains the generic classification of a vehicle. Example: [Vans]
3	...description	String	Contains the combination of the vehicle's year, make, model, trim, and variation.
3	...media	Object	Contains the media related information.
4	.... ColorizedMedia	Object	Contains the combination of a color code, media type, image type and a URL to the image.
5	.....MediaImage	String	Contains the details about a specific media type.
6	......code	String	Contains the code for the image angle. Example: FRONT_3QTR_LEFT
6	......name	String	Contains a user-friendly name for an image angle. Example: Front 3/4 Left Hero
6	......url	String	Contains the Universal Resource Locator (URL) to the vehicle image.

Level	Elements	Data Type	Description
			Example: "https://cachedimageonthefly.autodatadirect.com/?IMG=USD20MAC261B022005.png&QUALITY=2&WIDTH=330&HEIGHT=180"
6	……imageType	String	Contains information relating to whether the image is an interior or exterior shot. Example: EXTERIOR
3	…features	Object	Contains a complete set of features across all trims for the specified vehicle.
4	…. WHEEL_BASE	String	Contains the measure of distance between the center of the front wheels and center of rear wheels. Example: 121.6
4	…. DRIVE_TYPE	String	Contains the drivetrain of the vehicle. Example: FWD
4	….BOX_LENGTH	String	Contains the length dimension of the box.
4	….MFR_CODE	String	Contains the manufacturer code of the vehicle. Example: CX525SXA
4	….BODY_TYPE	String	Contains the categorization of vehicle based on its design. Example: Passenger Van
3	…restrictions	Array	Contains any restrictions associated with a vehicle. Currently, the attribute will contain "REGIONALVEHICLE" if the vehicle is designated for sale in specific regions only. Otherwise, this attribute will be empty.
3	…pricing	Object	Contains the MSRP and freight charge.
4	….msrp	Number	Contains the minimum MSRP of all trims for the model. Example: 28200
4	….destinationCharge	Number	Contains the freight charge for the vehicle. Example: 1395

MEDIA

/api/media/types

Method	Endpoint URL	Summary
GET	/api/media/types	Returns a list of your pre-selected interior and exterior media types as specified in your client profile. You can use this call to determine which media types can be returned in other calls that have a *media* input parameter.

REQUEST OBJECT

The following table provides the query parameters that you can use to specify advance search criteria to fine tune scope of the search results.

Parameter	Required	Datatype	Description
Accept-Language	No	String *header*	Allows for the identification of a ranked set of languages to be specified. The service selects the best match from the supported languages defined in the client profile. If you specify a language that is not set up in the client profile an error is returned.
X-Profile-Key	No	String *header*	An optional parameter that identifies a specific application profile definition. For example, you may have two compare client profiles, one for fleet and one for non-fleet vehicles. If not specified, the default client profile is used.

RESPONSE OBJECT

The following table provides the attributes returned in the response.

Elements	Data Type	Description
MediaTypesResponse	String	Contains the mapping of the code to the description. Example: { "DRIVERS_FRONT_WHEEL": "Driver's Front Wheel", "ENGINE_BAY": "Engine Bay", "FRONT": "Front",

Elements	Data Type	Description
		"FRONT_3QTR_LEFT": "Front 3/4 Left Hero", "FRONT_3QTR_RIGHT": "Front 3/4 Right", "REAR": "Rear", "REAR_3QTR_LEFT": "Rear 3/4 Left", "REAR_3QTR_RIGHT": "Rear 3/4 Right", "SIDE_PROFILE_LEFT": "Side Profile Left", "SIDE_PROFILE_RIGHT": "Side Profile Right", "TRUNK_OPEN": "Trunk Open", "CENTER_CONSOLE": "Centre Console", "DRIVERS_DASHBOARD": "Driver's Dashboard", "DRIVERS_SEAT": "Driver's Seat", "FULL_DASHBOARD": "Full Dashboard", "NAVIGATION_SYSTEM": "Navigation System", "PASSENGER_DASHBOARD": "Passenger Dashboard", "REAR_SEATS": "Rear Seats", "STEREO": "Stereo System" }

VEHICLE COMPARE

/api/image

Method	Endpoint URL	Summary
POST	/api/image	Returns a collection of photos by view for the specified vehicles. When only one vehicle is passed the other vehicles are automatically selected. The exception is when the vehicle is identified using a VIN. More than one VIN must be passed to receive a valid response.

REQUEST OBJECT

The following table provides the query parameters that you can use to specify advance search criteria to fine tune scope of the search results.

Parameter	Required	Datatype	Description
Accept-Language	No	String *header*	Allows for the identification of a ranked set of languages to be specified. The service selects the best match from the supported languages defined in the client profile. If you specify a language that is not set up in the client profile an error is returned.
X-Profile-Key	No	String *header*	An optional parameter that identifies a specific application profile definition. For example, you may have two compare client profiles, one for fleet and one for non-fleet vehicles. If not specified, the default client profile is used.
Request body	Yes	Object	The following are input parameters for making requests to this web service.
vehicles	Yes	Array	Identifies 1-4 vehicles to be compared against each other. If only 1 vehicle is requested the top 3 common competitors are used for the comparison. Identifies unique vehicle for a specific Year, Make, Model, and Trim and any options that are installed on the vehicle
code	Yes	String	The unique identifier for a vehicle. Example: USC70CRV091E0
options	No	String	Identifies a comma-separated list of options to be selected on the vehicle. Example: TYG, AMM, X7
include	No	Array	Identifies the filtering criteria to narrow down the results, thereby minimizing unnecessary data retrieval.

Parameter	Required	Datatype	Description
vehicleDetails	No	Boolean	Indicates whether to return vehicle details in the response. Defaults to 'true'.
includeCategories	No	Boolean	Indicates whether to include categories with empty feature rows in the response. When targetCategory or categoryLimit are specified, the remaining categories are omitted. This flag indicates whether to show those empty feature categories in the response. By default, this is set to true.
primaryColor	No	Object	Contains the exterior color code.
exterior	No	String	Contains a unique color code. Example: GAN

RESPONSE OBJECT

The following table provides the attributes returned in the response.

Level	Elements	Data Type	Description
1	vehicles	Array	Contains the model details along with media.
3	...code	String	The unique identifier for a vehicle. Can be an ACode, StyleId, Vehicle Token, or Vin. Example: USC70CRV091E0
3	...year	String	Contains the vehicle model year. Example: 2017
3	...make	String	Contains the vehicle division. Example: Chrysler
3	...modelCode	string	Contains a unique identifier for a model for a specific year. Example: USC70CRV09
3	...model	String	Contains the name of a model. Example: Pacifica
3	...trim	string	Contains the vehicle trim. Example: Limited
3	...variation	string	Contains the variation of the trim for that vehicle. The difference from variation to variation is determined by what is unique to that model. Typically, it's visual/body related such as Doors, Drive, Cab Style, WB, Box length and so on. Example: FWD Passenger Van
3	...description	String	Contains the combination of the vehicle's year, make, model, trim, and variation. Example: 2017 Chrysler Pacifica Limited FWD Passenger Van

Level	Elements	Data Type	Description
3	...segments	String	Contains the generic classification of a vehicle. Example: [Vans]
3	...media	Array	Contains the media related information.
4	....ColorizedMedia	Object	Contains the combination of a colorcode, media type, image type and a URL to the image.
5	.....MediaImage	Object	Contains the details about a specific media type.
6	......code	Array	Contains the code for the image angle. Example: FRONT_3QTR_LEFT
6	......name	String	Contains a user-friendly name for an image angle. Example: Front 3/4 Left Hero
6	......url	String	Contains the Universal Resource Locator (URL) to the vehicle image. Example: “https://cachedimageonthefly.autodatadirect.com/?IMG=USD20MAC261B022005.png&QUALITY=2&WIDTH=330&HEIGHT=180”
6	......imageType	String	Contains information relating to whether the image is an interior or exterior shot. Example: Exterior Enum: [EXTERIOR, INTERIOR]
3	...pricing	Object	Contains the MSRP and freight charge.
4	....msrp	Number	Contains the minimum MSRP of all trims for the model. Example: 39050
4	....destinationCharge	Number	Contains the freight charge for the vehicle. Example: 1650
3	...currentColor	Object	Contains a unique color code. Example: GAN
3	...colors	Object	Contains the exterior and interior color information.
4	....exteriors	Array	Contains a color object with optional description, Hex value, and media (i.e., a thumbnail as a swatch image).
6	......code	String	Contains a unique color code. Example GAN
6	......name	String	Contains the user-friendly name associated with the exterior paint color. Example: Summit White
6	......family	String	Contains a category of color that represents a particular hue. Example: White
6	......media	Object	Contains the primary and secondary color information.

Level	Elements	Data Type	Description
7	.....primary	String	Contains the color formatted as a hex string. Example: #0000ff
7	.....secondary	String	Contains the color formatted as a hex string. Example: #0000ff
4	....interiors	Object	Contains the code, name, family, and media information.
6	......Code	String	Contains a unique color code. Example: GAN
6	......name	String	A user-friendly name for the specific interior paint color. Example: Summit White
6	......family	String	Contains a category of color that represents a particular hue. Example: White
6	......media	Object	Contains the primary color information.
7	.....primary	String	Contains the color formatted as a hex string. Example: #0000ff
3	...restrictions	Array	Contains any restrictions associated with a vehicle. Currently, the attribute will contain "REGIONALVEHICLE" if the vehicle is designated for sale in specific regions only. Otherwise, this attribute will be empty.

/api/image.pdf

Method	Endpoint URL	Summary
POST	/api/image.pdf	Returns a collection of photos by view in PDF format for the specified vehicles. When only one vehicle is passed the other vehicles are automatically selected. The exception is when the vehicle is identified using a VIN. More than one VIN must be passed to receive a valid response.

REQUEST OBJECT

The following table provides the query parameters that you can use to specify advance search criteria to fine tune scope of the search results.

Parameter	Required	Datatype	Description
Accept-Language	No	String *header*	Allows for the identification of a ranked set of languages to be specified. The service selects the best match from the supported languages defined in the client profile. If

Parameter	Required	Datatype	Description
			you specify a language that is not set up in the client profile an error is returned.
X-Profile-Key	No	String *header*	An optional parameter that identifies a specific application profile definition. For example, you may have two compare client profiles, one for fleet and one for non-fleet vehicles. If not specified, the default client profile is used.
Request body	Yes		The following are input parameters for making requests to this web service.
vehicles	Yes	Array	Identifies 1-4 vehicles to be compared against each other. If only 1 vehicle is requested the top 3 common competitors are used for the comparison. Identifies unique vehicle for a specific Year, Make, Model, and Trim and any options that are installed on the vehicle
code	Yes	String	The unique identifier for a vehicle.
options	No	String	Identifies a comma-separated list of options to be selected on the vehicle.
primaryColor	No	Object	Identifies the exterior primary color.
exterior	No	String	Contains a unique color code.

RESPONSE OBJECT

Compare Image PDF File

/api/text

Method	Endpoint URL	Summary
POST	/api/text	Returns a collection of vehicle features by category for the specified vehicles. When only one vehicle is passed the other vehicles are automatically selected. The exception is when the vehicle is identified using a VIN. More than one VIN must be passed to receive a valid response.

REQUEST OBJECT

The following table provides the query parameters that you can use to specify advance search criteria to fine tune scope of the search results.

Parameter	Required	Datatype	Description
Accept-Language	No	String *header*	Allows for the identification of a ranked set of languages to be specified. The service selects the best match from the supported languages defined in the client profile. If you specify a language that is not set up in the client profile an error is returned.
X-Profile-Key	No	String *header*	An optional parameter that identifies a specific application profile definition. For example, you may have two compare client profiles, one for fleet and one for non-fleet vehicles. If not specified, the default client profile is used.
Request body	Yes	Array	The following are input parameters for making requests to this web service.
vehicles	Yes	String	The parameter that identifies vehicles to be compared against one another. Identifies unique vehicle for a specific Year, Make, Model, and Trim and any options that are installed on the vehicle.
code	Yes	String	The unique identifier for a vehicle. Can be an ACode, StyleId, Vehicle Token, or Vin. Example: USC70CRV091E0
configState	No	Array	Identifies a comma-separated array of options to be selected on the vehicle. Example: TYG, AMM, X7
runACE	No	boolean	Identifies an optional runACE boolean value to be selected on the vehicle to comparably equip competitive vehicles. Example: true

Parameter	Required	Datatype	Description
effectiveDate	No	String ($date-time)	Identifies an optional effective date to be selected on the vehicle
primaryColor	No	Array	Identifies the exterior color code.
exterior	No	String	Contains a unique color code. Example: GAN
include	No	Array	Identifies the filtering criteria to narrow down the results, thereby minimizing unnecessary data retrieval.
vehicleDetails	No	boolean	Indicates whether to return vehicle details in the response. Defaults to 'true'.
targetCategories	No	Array	Identifies specific feature categories to include in the response. If not specified, all categories are returned unless categoryLimit is set.
categoryLimit	No	Integer	Identifies the number of feature categories to include in the response. If not set, all categories are returned unless targetCategories are specified. If targetCategories are specified categoryLimit is ignored.
includeCategories	No	Boolean	Indicates whether to include categories with empty feature rows in the response. When targetCategory or categoryLimit are specified, the remaining categories are omitted. This flag indicates whether to show those empty feature categories in the response. By default, this is set to true.
genericWeight	No	Boolean	Controls how feature weights are displayed in the response. When set to “True”, the response shows the actual feature weights even if the primary vehicle doesn’t have an advantage over any secondary vehicle. If set to “False” (or omitted), the weights for all vehicles are disregarded and displayed as 0 when the primary vehicle doesn’t have an advantage over any secondary vehicle.

RESPONSE OBJECT

Level	Elements	Data Type	Description
1	features	Object	Contains the features data for two or more vehicles.
2	..additionalProperties	Array	Contains the comparison data for two or more vehicles.
3	...category	Object	Contains a unique code representing a feature category. Example: pricing

Level	Elements	Data Type	Description
3	...name	String	Contains a user-friendly name for a category.
3	...disclaimer	String	Contains a disclaimer for a category. Example: We have determined which optional equipment to add to the competitor vehicles, to equip each vehicle equally with your base vehicle selection. This gives you the truest side-by-side comparison to help you make the best purchase decision.
3	...featureRows	Array	Contains comparisons within a category.
4	....id	String	Contains a unique identifier for each feature within a category. Example: pricing3
4	....label	String	Contains a user-friendly name for the feature, along with unit (with applicable). Examples: Non-numeric - Primary fuel, Numeric - Torque (lb. -ft.)
4	....overview	Array	Contains the extended description of the feature, if available.
3	...description	String	Example: Two camshafts (DOHC), one operating intake valves and the other exhaust valves, are located above each bank of cylinders. The design is very adaptable to multiple intake and exhaust valves.
3	...title	String	It is based on the value and label under consideration. Example: Multi-link rear suspension
4	....featureDescription	String	Contains a description of the feature.
4	....comparisons	Array	Contains the vehicle comparison data for the feature.
5	.....value	String	Contains the comparison value. In the case of the pricing3 feature, the value will be the total of all options selected on the vehicle. Example: $3,700
5	.....weight	Integer	Rank weight of comparison compared against the other vehicles in the response from 1 (lowest) to number of comparisons in comparison row. Example: 2
5	.....options	Array	Contains the options included on the vehicle for this comparison.
5	.....data	Object	An object containing additional information for the feature.
6	......isNonStandard	Boolean	Indicates whether a feature value on a vehicle has been modified by the Automatically Comparably Equipped (ACE) process.
6	......modifiedBy	String	Indicates the specific option or package that led to a feature's value being modified by the Automatically Comparably Equipped (ACE) process.

Level	Elements	Data Type	Description
6	.....changeOptions	Array	Contains a list of upgradable or alternative options/packages that could modify the feature's value. Each item in the array is an object where the key represents the option or package code, and its value is an object containing further details.
7	.....price	Number	Contains price of the upgradable or alternative option/package.
7	.....description	String	Contains a brief description of the upgradable or alternative option/package.
4	....hasDiff	Boolean	Set to true if the vehicles do not all have the same feature for this comparison row. Example: true
1	vehicles	Array	Contains the model, pricing, color, and media information.
3	...code	String	The unique identifier for a vehicle. Can be an ACode, StyleId, Vehicle Token, or Vin. Example: USC70CRV091E0
3	...year	String	Contains the vehicle model year. Example: 2017
3	...make	String	Contains the vehicle division. Example: Chrysler
3	...modelCode	string	Contains a unique identifier for a model for a specific year. Example: USC70CRV09
3	...model	String	Contains the name of a model. Example: Pacifica
3	...trim	String	Contains the vehicle trim. Example: Limited
3	...variation	String	Contains the variation of the trim for that vehicle. The difference from variation to variation is determined by what is unique to that model. Typically, its visual/body related such as Doors, Drive, Cab Style, WB, Box length and so on. Example: FWD Passenger Van
3	...description	String	Contains the combination of the vehicle's year, make, model, trim, and variation. Example: 2017 Chrysler Pacifica Limited FWD Passenger Van
3	...segments	String	Contains the generic classification of a vehicle. Example: [Vans]
3	...media	Array	Contains the media related information.
4	....ColorizedMedia	Object	Contains the combination of a color code, media type, image type and a URL to the image.
5	.....MediaImage	Object	Contains the details about a specific media type.

Level	Elements	Data Type	Description
6	……code	Array	Contains the code for the image angle. Example: FRONT_3QTR_LEFT
6	……name	String	Contains a user-friendly name for an image angle. Example: Front 3/4 Left Hero
6	……url	String	Contains the Universal Resource Locator (URL) to the vehicle image. Example: “https://cachedimageonthefly.autodatadirect.com/?IMG=USD20MAC261B022005.png&QUALITY=2&WIDTH=330&HEIGHT=180”
6	……imageType	String	Contains information relating to whether the image is an interior or exterior shot. Example: Exterior Enum: [EXTERIOR, INTERIOR]
3	…pricing	Object	Contains the MSRP and freight charge.
4	….msrp	Number	Contains the minimum MSRP of all trims for the model. Example: 39050
4	….destinationCharge	Number	Contains the freight charge for the vehicle. Example: 1650
3	…currentColor	Object	Contains a unique color code. Example: GAN
3	…colors	Object	Contains the interior and exterior color information.
4	….exteriors	Object	Contains a color object with optional description, Hex value, and media (i.e., a thumbnail as a swatch image).
6	……code	String	Contains a unique color code. Example: GAN
6	……name	String	Contains the user-friendly name associated with the exterior paint color. Example: Summit White
6	……family	String	Contains a category of color that represents a particular hue. Example: White
6	……media	Object	Contains both the primary and secondary color information.
7	…….primary	String	Contains the color formatted as a hex string. Example: #0000ff
7	…….secondary	String	Contains the color formatted as a hex string. Example: #0000ff
4	….interiors	Object	Contains the code, name, family, and media information.
6	……Code	String	Contains a unique color code. Example: GAN

Level	Elements	Data Type	Description
6	……name	String	A user-friendly name for the specific interior paint color. Example: Summit White
6	……family	String	Contains a category of color that represents a particular hue. Example: White
6	……media	Object	Contains the primary color information.
7	…….primary	String	Contains the color formatted as a hex string. Example: #0000ff
3	…restrictions	Array	Contains any restrictions associated with a vehicle. Currently, the attribute will contain "REGIONALVEHICLE" if the vehicle is designated for sale in specific regions only. Otherwise, this attribute will be empty.

api/text.pdf

Method	Endpoint URL	Summary
POST	/api/text.pdf	Returns a collection of vehicle features by category in PDF format for the specified vehicles. When only one vehicle is passed the other vehicles are automatically selected. The exception is when the vehicle is identified using a VIN. More than one VIN must be passed to receive a valid response.

REQUEST OBJECT

The following table provides the query parameters that you can use to specify advance search criteria to fine tune scope of the search results.

Parameter	Required	Datatype	Description
Accept-Language	No	String *header*	Allows for the identification of a ranked set of languages to be specified. The service selects the best match from the supported languages defined in the client profile. If you specify a language that is not set up in the client profile an error is returned.
X-Profile-Key	No	String *header*	An optional parameter that identifies a specific application profile definition. For example, you may have two compare client profiles, one for fleet and one for

Parameter	Required	Datatype	Description
			non-fleet vehicles. If not specified, the default client profile is used.
Request Body	Yes	Array	The following are input parameters for making requests to this web service.
vehicles	Yes	Array	The parameter that identifies vehicles to be compared against one another. Identifies unique vehicle for a specific Year, Make, Model, and Trim and any options that are installed on the vehicle.
code	Yes	String	The unique identifier for a vehicle. Can be an ACode, StyleId, Vehicle Token, or Vin. Example: USC70CRV091E0
configState	No	Array	Identifies a comma-separated array of options to be selected on the vehicle. Example: TYG, AMM, X7
runACE	No	boolean	Identifies an optional runACE boolean value to be selected on the vehicle to comparably equip competitive vehicles. Example: true
effectiveDate	No	String	Identifies an optional effective date to be selected on the vehicle. Example: "2023-12-12T20:59:55.606Z"
primaryColor	No	Array	Identifies the exterior color code.
exterior	No	String	Contains a unique color code. Example: GAN
include	No	Array	Identifies filtering criteria to narrow down the results, thereby minimizing unnecessary data retrieval.
vehicleDetails	No	boolean	Indicates whether to return vehicle details in the response. Defaults to 'true'.
targetCategories	No	Array	Identifies specific feature categories to include in the response. If not specified, all categories are returned unless categoryLimit is set. Example: pricing
categoryLimit	No	Integer	Identifies the number of feature categories to include in the response. If not set, all categories are returned unless targetCategories are specified. If targetCategories are specified categoryLimit is ignored. Example: 3
includeCategories	No	Boolean	Indicates whether to include categories with empty feature rows in the response. When targetCategory or categoryLimit are specified, the remaining categories are omitted. This flag indicates whether to show those

Parameter	Required	Datatype	Description
			empty feature categories in the response. By default, this is set to true. Example: true
genericWeight	No	Boolean	Controls how feature weights are displayed in the response. When set to "True", the response shows the actual feature weights even if the primary vehicle doesn't have an advantage over any secondary vehicle. If set to "False" (or omitted), the weights for all vehicles are disregarded and displayed as 0 when the primary vehicle doesn't have an advantage over any secondary vehicle.

RESPONSE OBJECT

Compare Text PDF File

RESPONSE STATUS CODES

The following table describes response status codes returned by the service.

Code	Description
200	OK [Success]
400	The request is improperly formed. The server cannot process the request due to something that is perceived to be a client error (e.g., malformed request syntax, invalid request message framing, or deceptive request routing).
401	The request has not been applied because it lacks valid authentication credentials for the target resource.
404	Not Found – requested vehicle does not exist or is unavailable based on client profile settings.
500	Internal Server Error - The server encountered an unexpected condition that prevented it from fulfilling the request.

ERROR RESPONSE

Properties	Type	Description
code	String	Contains a value that helps track the source of an error.
error	String	Contains a textual description of the HTTP error.
message	String	Contains textual description of what caused the error.
status	number	Contains the HTTP status code.
timestamp	number	Contains the date and time the error occurred.
details	Array	Contains additional information about the error.

INTEGRATING WITH THE SERVICE

Once you are ready to start developing your application, you must properly secure your usage of services by integrating a security token protocol into the Authorization header of the request to the service. The Shared Secret Security Protocol guide describes how to do this.

To access the Shared Secret Security Protocol guide:

10. Once you have registered, as described in the next section, sign into the portal.
11. On the Dashboard, click the **APIs** button.
12. On the APIs page, click the hyperlink name for an API.
13. On the web service page, in the left navigation menu, click **Documentation**.
14. On the Documentation page, click the **Shared Secret Security Protocol.pdf** link to open the guide.