



EasyCars Stock API

Technical Specification Documentation

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1. Introduction

This document provides the technical specification for the EasyCars Stock API, which allows external systems to interact with the EasyCars platform for the purpose of retrieving stock list for advertisement and other usage.

The EasyCars Stock API offers a secure and standardized way for authorized clients to access stock information and perform related operations programmatically. It is designed to facilitate seamless system-to-system communication, enabling users to retrieve stock.

This documentation outlines the structure, functionality, and requirements of the API, including details on authentication, available endpoints, request and response formats, and general usage guidelines. It serves as a reference for developers and technical teams who are integrating with the EasyCars Stock API.

For a more comprehensive understanding or specific inquiries, please feel free to contact the Jeal Development Team.

2. API Environments

The EasyCars Stock API provides separate environments for testing and production to ensure smooth development, integration, and deployment.

Environment	URL
Test	https://testmy.easycars.com.au/TestECSservice/StockService/
Production	https://my.easycars.net.au/ECSservice/StockService/

Note:

- Both environments require authentication using the JWT token.
- It is recommended to complete all development and testing in the test environment before switching to production.

You will receive JSON formatted response after calling Stock API endpoints. The base response object includes "Code" and "ErrorMessage" properties. Unauthorized calls or invalid models will receive the same response model too. Example:

```
{
  "Code": 1,
  "ErrorMessage": "Invalid token."
}
```

Response code values can be:

- Success = 0
- AuthenticationFail = 1
- Warning = 5
- Failed = 7
- SystemError = 9

3. Token Request

All requests to the EasyCars Stock API must be authenticated using a valid JSON Web Token (JWT). To obtain a token, clients must send a request to the authentication endpoint using their assigned credentials.

Endpoints

Test: POST - <https://testmy.easycars.com.au/TestECSERVICE/StockService/RequestToken>

Production: POST - <https://my.easycars.net.au/ECSERVICE/StockService/RequestToken>

Request Parameters

- **ClientID:** (Query Parameter) Unique identifier for the client. Example: 45FEBB0B-C09A-4166-9C99-8A26F3E7316E
- **ClientSecret:** (Query Parameter) Secret key associated with the client ID. Example: 0267CF38-3312-4C2E-8435-495E64D2C3BE

Request Headers

No request header is required for this endpoint.

Request Body

No request body is required for this endpoint. Use an empty data parameter in the request.

Response Object

Upon a successful request, the API returns a JSON object with the following properties:

- **Token:** A JWT (JSON Web Token) used for authentication in subsequent requests.
- **Code:** Status code indicating the result of the request. 0 signifies success.
- **ErrorMessage:** A message providing additional information in case of an error. It is null for successful requests.

Example Request

```
curl --location --request POST
'https://my.easycars.net.au/ECSERVICE/StockService/RequestToken?ClientID=45FEBB0B-C09A-4166-9C99-8A26F3E7316E&ClientSecret=0267CF38-3312-4C2E-8435-495E64D2C3BE' \
--header 'Cookie: ASP.NET_SessionId=idg5brxuh4jnw4laz0rju2ia' \
--data ''
```

Example Response

```
{
  "Token":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJkbG1bnRJRRCi6IjBENzZBOTc2LTE1RUYtNDc5MS04QTIxLTMzOUUwODYwQjY1QyIsIm5iZiI6MTcwOTA4MTA4OCwiZXhwIjoxNzA5MDgxNjg4LCJpYXQiOjE3MDkwODEwODh9.QHh070A3xru6iwhjwn_LCFM0wXBTW56uQvA3DG-eAWY",
  "Code": 0,
  "ErrorMessage": null
}
```

4. Get Advertisement Stock List

The GetAdvertisementStocks endpoint allows clients to retrieve a list of stock items associated with EasyCars accounts. The response can be filtered by yard code. Upon successfully acquiring the token, place the obtained token in the header using the format "Bearer {token}".

Endpoints

Test: POST - <https://testmy.easycars.com.au/TestECServices/StockService/GetAdvertisementStocks>

Production: POST - <https://my.easycars.net.au/ECServices/StockService/GetAdvertisementStocks>

Request Headers

- **Authorization:** (Header) Bearer token obtained from the RequestToken endpoint for authentication. Format will be **"Bearer {token}"**
- **Content-Type:** (Header) The content type of the request payload. Should be set to application/json.

Request Body

The request payload should be a JSON.

Parameter	Type	Required	Description
AccountNumber	string	Yes	The unique account number provided by EasyCars.
AccountSecret	string	Yes	The secret key associated with the account number.
YardCode	string	No	Optional yard identifier. If not present, all stocks will be listed

Response

The GetAdvertisementStocks endpoint returns a JSON object containing a list of stock items (StockList), along with a status Code and an optional ErrorMessage.

Field	Type	Description
StockList	array	List of stock items matching the search/filter criteria.
Code	integer	Status code (0 indicates success).
ErrorMessage	string	Error message (if any).

Stock Item:

Field	Type	Description
YardCode	string	Unique identifier of the yard where the vehicle is located.
YardName	string	Name of the yard.
StockNumber	string	Internal unique stock identifier.
Make	string	Vehicle manufacturer (e.g., Toyota).
Model	string	Vehicle model (e.g., Corolla).
Badge	string	Vehicle trim or badge (e.g., SX, ES).
RegoNum	string	Vehicle registration number (plate).
VIN	string	Vehicle Identification Number.
Price	number (nullable)	Vehicle price.
YearGroup	integer	Year of manufacture.
Odometer	integer (nullable)	Vehicle odometer reading.
Body	string	Body type (e.g., Sedan, SUV, Hatchback).
Colour	string	Exterior colour of the vehicle.
EngineCapacity	string	Engine capacity (e.g., 2.0L, 1998cc).
GearType	string	Transmission type (e.g., Automatic, Manual).
FuelType	string	Fuel type (e.g., Petrol, Diesel, Hybrid).
AdvDescription	string	Full advertisement description.
Series	string	Vehicle series (if applicable).
AdvSpecialPrice	number (nullable)	Special/discounted price.
IsDemo	boolean	Indicates if the vehicle is a demo.
IsSpecial	boolean	Indicates if the vehicle has a special offer.

IsPrestiged	boolean	Indicates if the vehicle is marked as prestiged.
StockType	string	Stock type (A=Car B=Boats C=Caravan/Camper H=Heavy Truck/Bus M=Motor Bike T=Trailer).
IsUsed	boolean	true if the vehicle is used, false if new.
RegoExpiry	string	Registration expiry date (format dd/mm/yyyy).
VideoLink	string	URL link to a stock video (if available).
DriveTrain	string	Drive type (e.g., AWD, FWD, RWD).
DoorNum	integer (nullable)	Number of doors.
Cylinder	string	Engine cylinder configuration (e.g., V6, Inline-4).
ShortDescription	string	Short text description of the stock.
EngineTypeDescription	string	Engine type description (e.g., Turbo Diesel).
EngineSize	number (nullable)	Engine size.
StockStatus	string	Stock status (e.g., In Stock, Sold).
GCM	number (nullable)	Gross Combination Mass.
GVM	number (nullable)	Gross Vehicle Mass.
Tare	number (nullable)	Vehicle tare weight.
SleepingCapacity	integer (nullable)	Sleeping capacity (for caravans/motorhomes).
Toilet	string	Toilet availability/details (if applicable).
Shower	string	Shower availability/details (if applicable).
AirConditioning	string	Air conditioning details.
Fridge	string	Fridge details (if applicable).
Stereo	string	Stereo/audio system details.
SeatCapacity	integer (nullable)	Number of seats.

RegoState	string	State of vehicle registration (e.g., NSW, VIC).
AdditionalDescription	string	Additional stock description text.
IsDriveAway	boolean (nullable)	true if price is drive-away, otherwise null/false.
InteriorColor	string	Interior colour of the vehicle.
BuiltDate	string	Vehicle build date.
ComplianceDate	string	Compliance date.
EngineNumber	string	Engine number (if recorded).
GPS	string	GPS/navigation details (if applicable).
Wheelsize	string	Wheel size specification.
TowBallWeight	string	Tow ball weight specification.
Warranty	string	Warranty details.
Wheels	string	Wheel details.
AxleConfiguration	string	Axle configuration (e.g., 4x2, 6x4).
Location	string	Location of the stock.
StandardFeatures	string	List of standard features included with the vehicle.
OptionalFeatures	string	List of optional or add-on features available for the vehicle.
RedbookCode	string	Redbook reference code for the vehicle.
NVIC	string	NVIC code for the vehicle.
IsMiles	boolean	True if the odometer is measured in miles, false if in kilometers.
GearCount	integer (nullable)	Number of gears in the vehicle's transmission.
EnginePower	number (nullable)	Engine power, typically in horsepower (hp) or kilowatts (kW).
PowerkW	number (nullable)	Power specifically in kilowatts.
Powerhp	number (nullable)	Power specifically in horsepower.
EngineMake	string	Manufacturer of the engine.

SerialNumber	string	Serial number of the vehicle (if available).
Length	number (nullable)	Vehicle length in meters.
IsDepositTaken	boolean	true if a deposit has been taken.
ImageCount	integer	Number of images uploaded.
ImageURLs	string	Image URLs (comma-separated string).

Example Request

```
curl --location 'http://testmy.easycars.com.au/TestECService/StockService/GetAdvertisementStocks' \
--header 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJkbGllbnRJRCI6IjBENzZBOTc2LTE1RUYtNDc5MS04QTIxLTMzOUUwODYwQjY1QyIsIm5iZiX6MTc1NzU2NzQ4MCwiZXh0IjoxNzU3NTY4MDgwLCJpYXQiOiE3NTc1Njc0ODB9.No-y5V2tpMQLPPkzL2p_4xo4o_qu6KSvefxgaRKz68M' \
--header 'Content-Type: application/json' \
--header 'Cookie: ASP.NET_SessionId=oj2qfwlk05alrplgyjlp4iau' \
--data '{
  "AccountNumber": "EC103815",
  "AccountSecret": "f9171363-ae0e-47c1-82df-a299cc88a53b"
}'
```

Example Response

```
{
  "StockList": [
    {
      "YardCode": "100",
      "YardName": "testyard1",
      "StockNumber": "12",
      "Make": "VOLVO",
      "Model": "V90",
      "Badge": "D5 CROSS COUNTRY INSCRIPTION ",
      "RegoNum": "",
      "VIN": "",
      "Price": null,
      "YearGroup": 2020,
      "Odometer": null,
      "Body": "4D WAGON",
      "Colour": "",
      "EngineCapacity": "2.0L",
      "GearType": "8 SP AUTOMATIC GEARTRONIC",
      "FuelType": "Diesel",
      "AdvDescription": "test default 1",
      "Series": "236 MY19 ",
      "AdvSpecialPrice": null,
    }
  ]
}
```

```

    "IsDemo": false,
    "IsSpecial": false,
    "IsPrestiged": false,
    "StockType": "A",
    "IsUsed": false,
    "RegoExpiry": null,
    "VideoLink": "",
    "DriveTrain": "AWD",
    "DoorNum": null,
    "Cylinder": "TT4",
    "ShortDescription": "V90 D5 CROSS COUNTRY INSCRIPTION 23 TWIN TURBO CDI
2.0L 8 SP AUTOMATIC GEARTRONIC",
    "EngineTypeDescription": "TWIN TURBO CDI",
    "EngineSize": 1969,
    "StockStatus": "On Offer",
    "GCM": null,
    "GVM": 2440,
    "Tare": 1894,
    "SleepingCapacity": null,
    "Toilet": "",
    "Shower": "",
    "AirConditioning": "",
    "Fridge": "",
    "Stereo": "",
    "SeatCapacity": 5,
    "RegoState": "QLD",
    "AdditionalDescription": "",
    "IsDriveAway": false,
    "InteriorColor": "",
    "BuiltDate": "",
    "ComplianceDate": "",
    "EngineNumber": "",
    "GPS": "",
    "Wheelsize": "0",
    "TowBallWeight": "",
    "Warranty": "",
    "Wheels": "",
    "AxleConfiguration": "",
    "Location": "",
    "StandardFeatures": "Additional 12 Volt Socket/s,12 Volt Power Outlet,Dual
Front Airbags Package,Airbags Knee,Airbags - Window,Auto Climate Control with Dual
Temp Zones,Automatic Climate Control Filtered,Active High Beam Control,Adaptive
Chassis Control,Apple Car Play,Active Front Head Restraints,Ambient Interior
Lighting,Adjustable Speed Limiter,Automatic Stop/Start,Anti-theft Wheel Bolts,AUX/USB
Input Socket,AutoPilot,19 Inch Alloy Wheels,Blind Spot Monitoring,Bluetooth
Connectivity,Cruise Control Intelligent/Active,City Safety,Collapsible Steering
Column,Cross Traffic Recognition,Driver Fatigue Detection,Dust and Pollen
Filter,Daytime Running Lights - LED,Dusk Sensing Headlights,Digital TV,Emergency Brake
Lights - Flashing,Exterior Mirrors - Auto Dimming,Electric Parking Brake,Electronic
Stability Control,First-Aid Kit,Front Centre Armrest,Forward Collision Warning,Fog
Lights - Front,Fog Lights - Front with Cornering Function,Floor Mats - Front &
Rear,Glovebox Compartment,Headlights - Automatic Levelling,Headlights - Coming/Leaving

```

Home Function,Heated Front & Rear Seats,Hill Holder,Hill Start Assist,Hands-Free Smart Tailgate,Headlight Washer System,Engine Immobiliser,Keyless Entry & Start,Kerb View Function,Lights on Exterior Door Handles,LED Headlights,Lane Keeping Assist,Low Speed Flow,Multi Function Control Screen,Multi Function Display,Multi Function Steering Wheel,Massage Function on Driver Seat,Parking Distance Control Rear,Paddle Shifters on Steering Wheel,Power Front Seat Driver 6 Way,Power front seats,Power front seat Driver/memory,Power Lumbar Support Front Seats,Power Mirrors,Power Steering,Power Windows,Rear Air Vents,Rear Collision Warning,Roof Rails,Rain Sensing Wipers & Light Sensor,Rain Sensing Wipers,Rear View & Side Mirrors Auto Dimming,Side Airbags,Seatbelt Automatic Locking Retractor,Satellite Navigation,Seatbelts - Load Limiters Front Seats,Seatbelts - Load Limiters Rear Seats,Seatbelts - Lap/Sash for All Seats,Seatbelts - Pre-tensioners Rear Seats,Seatbelts - Pre-tensioners Front Seats,Seatbelts - Reminder for All Seats,Speed Sensing Auto Door Lock,Split Fold Rear Seat,Side Impact Protection,Speed Sensitive Power Steering,Sunvisors with Vanity Mirrors & Illumination,Steering Wheel-mounted Audio Controls,Trip Computer,Trailer Stability Control,Traffic Sign Recognition,Ventilated Front Seats,Voice Recognition System,Whiplash Protection System,Windscreen - Solar Attenuating,Warning Triangle",

```

    "OptionalFeatures": "",
    "RedbookCode": "",
    "NVIC": "",
    "IsMiles": false,
    "GearCount": null,
    "EnginePower": 173,
    "PowerkW": 173,
    "Powerhp": 231.82,
    "EngineMake": "",
    "SerialNumber": "",
    "Length": null,
    "IsDepositTaken": true,
    "ImageCount": 2,
    "ImageURLs":
"https://testmy.easycars.net.au/test/publicimages/image/310097/16211/cdfd6ae814a60a2c8b56c994fdf94da2feb092ad,https://testmy.easycars.net.au/test/publicimages/image/310097/16212/3828320481e8a3c985036229da52ab9bd290489b"
    }
  ],
  "Code": 0,
  "ErrorMessage": null
}

```