

# New apollo REST API Initial Documentation

Document version: 1.27  
Created by: Joel  
Create Date: 12/22/2021  
Last Update by: Joel  
Last Update Date: 04/21/2022

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## Introduction

Company's customers are requesting new API interface to interact with and to send and get data. Current internal API will be modified to be prepare for this new requirement. A new REST API interface will be created reusing and modifying existing GPSBLL and GPSDAL dlls. Input and Output data will be in JSON format. No authentication will be added so far

IDE and programming language:  
URL:

VS 2019 with VB.NET Framework 4.7.2  
<https://content.eldroadmap.com:9103>

## Document Version Control

- 1- First Version for HOSClient and HOSDriver API calls.
- 1.1- Some corrections of first version content.
  - New additions for HOSAssets and HOSHomeBase API calls.
- 1.2- New additions for HOSShipment API calls.
- 1.3- Corrections based on New apollo REST API QA Test Results (See Appendix 3 – 3.1)
- 1.4- New additions for LogBook, USA and Canada versions.
  - Corrections based on New apollo REST API QA Test Results (See Appendix 3 – 3.2)
  - General revision of JSON samples.
- 1.5- New additions for Unidentified Logs
  - Corrections based on New apollo REST API QA Test Results (See Appendix 3 – 3.3)
- 1.6- New additions for Log Edits
- 1.7- New modifications for Create and Update HOSClient for Reseller and for Client
- 1.8- New additions for Dashboard and Get Vehicles with Unidentified Logs
- 1.9- New additions for Violations and Modifications for Get Drivers For Reseller and For Client to specify Driver Status
- 1.10-New additions for Record Drivers
- 1.11-New additions for FMCSA Responses
- 1.12-New additions for Engine Diagnostic, Driver Duty Reports and new fix applied to Insert Client by Reseller after been reported as an issue
- 1.13-New additions for LogBook: Insert, Update, Delete Events and Update Remark calls.
  - Corrections based on New apollo REST API QA Test Results (See Appendix 3 – 3.4)
- 1.14-Corrections based on New apollo REST API QA Test Results (See Appendix 3 – 3.5)
- 1.15-Corrections based on New apollo REST API QA Test Results (See Appendix 3 – 3.6 to 3.8)
- 1.16-New addition for Assign/Unassign HomeBase to List of Drivers
  - Corrections based on New apollo REST API QA Test Results (See Appendix 3 – 3.9)
- 1.17-Corrections based on New apollo REST API QA Test Results (See Appendix 3 – 3.10)
- 1.18-Corrections based on New apollo REST API QA Test Results (See Appendix 3 – 3.11)
- 1.19-Corrections based on New apollo REST API QA Test Results (See Appendix 3 – 3.12)

1.20-New additions for HOSNotification API calls

- Corrections based on New apollo REST API QA Test Results (See Appendix 3 – 3.13)
- New validation added for 2.3.3 and 2.3.4: Add and Update Asset. Asset Number to allow only alphanumeric values

1.21-Remove all NO DATA error messages to show only OK responses.

The following codes were removed:

Code	Description
83	HOSLOGBOOK_NO_DATA_AVAILABLE
90	HOSUNIDENTIFIEDLOGS_NO_DATA_AVAILABLE
96	HOSLOGEDITS_NO_DATA_AVAILABLE
97	HOSDASHBOARD_NO_DATA_AVAILABLE
99	HOSVIOLATION_NO_DATA_AVAILABLE
100	HOSRECORD_NO_DATA_AVAILABLE
103	FMCSARESPONSES_NO_DATA_AVAILABLE
104	DTCREPORT_NO_DATA_AVAILABLE
106	DRIVER_DUTY_REPORT_NO_DATA_AVAILABLE
154	HOSNOTIFICATION_NO_DATA_AVAILABLE

1.22- Corrections based on New apollo REST API QA Test Results (See Appendix 3 – 3.14)

1.23- Driver Status Codes added to Appendix 1 - 1.18

Corrections based on New apollo REST API QA Test Results (See Appendix 3 – 3.15)

1.24-Modification of all API calls:

- Change for All Call urls: Addition of “/v2.0/” in the middle of All url calls

New validation added for HOSDriver Update API call:

- Driver UserName cannot be changed after get value

New validation added for HOSDriver Insert and Update calls for Reseller and for Client API calls:

- If HomeBaselId is not null, empty or 0 then it must be a valid HomeBaselD for the HOSClient

New validation added for HOSClient Insert and Update API call:

- WorkOrder Enabled and IFTA Enabled can be only activated by Reseller with permission and cannot be changed from Enabled to Disabled

New additions for HOSClient for Client call:

- Get Client by External Id

Changes on Assets, adding HOSAssetTractorProperty and related new validations

- New API response codes added and 43 value moved to 166
- New Time Zone Code 7 added for Arizona Time. All validations changed to be between 0 and 7, instead of 0 and 6.

1.25- Corrections to documentation urls and other incorrect data

New attribute added to HOSDriver calls:

- TakeDVIRPhotoEnabled

Correction to Certificate access in USA Logbook calls

Corrections to WorkOrder Enabled and IFTA Enabled after QA Test Results (See Appendix 3 – 3.16)

1.26- Corrections based on New apollo REST API QA Test Results (See Appendix 3 – 3.17)

New addition to add 2 events in one call to LogBook for Client

1.27- Multiple New additions for IFTA and DVIR Reports for Client

# Methods exposed in this new REST API

## 1- Available for Resellers

### 1.1-For Clients

#### 1.1.1- Get All Clients

**Method Call name:** /HOSClient/v2.0/GetHOSClientsForReseller

**Functionality:** Will return a list with the data of all clients for this Reseller

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>ResellerApiKey</b>	String	✓	Unique Key that identifies the Reseller	Must have a value as a valid and existing Reseller Key in our system

#### Sample JSON:

```
{  
  "ResellerApiKey": "FBrDkbv1gg4Dae3EIf526RPn"  
}
```

#### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Reseller's Clients in a JSON format. Each list item will have a specific structure (See Appendix 2, 2.1- BasicHOSClientDTO2 )

#### Sample JSON:

-After an invalid input data sent:

```
{  
  "code": 42,  
  "data": null  
}
```

-After a valid input data sent:

```
{  
  "code": 1,  
  "data": [  
    {  
      "HOSClientId": 18,  
      "ExternalClientId": 14686177,  
      "CarrierId": "12",  
      "CarrierName": "12",  
      "CarrierAddress": "12",  
      "TimeZoneCode": 0,  
      "CarrierCountry": 1,  
      "ApiKey": "12",  
      "DistanceUnitCode": 1,  
      "FuelUnitCode": 1,  
      "DTCCodes": 0,  
    }  
  ]  
}
```

```

    "ActivateDriver": 0,
    "ECMAutomatic": 0,
    "ForceAssetSelection": 0,
    "ForceECMLinkConnection": 0,
    "SupportUserName": "",
    "SupportPassword": "",
    "CanadaEnabled": 0,
    "WorkOrderEnabled": 0,
    "EnhancedIFTAEnabled": 0
  },
  {
    "HOSClientId": 127,
    "ExternalClientId": 146861771,
    "CarrierId": "13",
    "CarrierName": "Carrier 13",
    "CarrierAddress": "Address 13",
    "TimeZoneCode": 0,
    "CarrierCountry": 1,
    "ApiKey": "",
    "DistanceUnitCode": 1,
    "FuelUnitCode": 1,
    "DTCCodes": 0,
    "ActivateDriver": 0,
    "ECMAutomatic": 0,
    "ForceAssetSelection": 0,
    "ForceECMLinkConnection": 0,
    "SupportUserName": "",
    "SupportPassword": "",
    "CanadaEnabled": 0,
    "WorkOrderEnabled": 0,
    "EnhancedIFTAEnabled": 0
  }
}

```

### 1.1.2- Get Client

**Method Call name:** /HOSClient/v2.0/GetHOSClientForReseller

**Functionality:** Will return the data of a specific client of this Reseller

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>ResellerApiKey</b>	String	✓	Unique Key that identifies the Reseller	-Not null or empty -Must be a valid and existing Reseller Key in our system
<b>ExternalClientId</b>	Integer	✓	ID that identifies the Client on the Reseller system	-Not null or empty - Must be a valid External Client ID linked to this Reseller

### Sample JSON:

```
{
  "ResellerApiKey": "FBrDkbvlgg4Dae3EIf526Rpn",
  "ExternalClientId": 1468618029
}
```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that <b>code</b> value is different of 1 -Will include one Reseller's Client in a JSON format. It will have a specific structure (See Appendix 2, 2.1- BasicHOSClientDTO2 )

### Sample JSON:

-After an invalid input data sent:

```
{
  "code": 43,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": [
    {
      "HOSClientId": 18,
      "ExternalClientId": 14686177,
      "CarrierId": "12",
      "CarrierName": "12",
      "CarrierAddress": "12",
      "TimeZoneCode": 0,
      "CarrierCountry": 1,
      "ApiKey": "12",
      "DistanceUnitCode": 1,
      "FuelUnitCode": 1,
      "DTCCodes": 0,
      "ActivateDriver": 0,
      "ECMAutomatic": 0,
      "ForceAssetSelection": 0,
      "ForceECMLinkConnection": 0,
      "SupportUserName": "",
      "SupportPassword": "",
      "CanadaEnabled": 0,
      "WorkOrderEnabled": 0,
      "EnhancedIFTAEnabled": 0
    }
  ]
}
```

### 1.1.3- Add New Client

**Method Call name:** /HOSClient/v2.0/InsertHOSClientForReseller

**Functionality:** Will insert a new client for this Reseller

**Type of Method:** Post

#### Input Parameters

Field	Type	Required	Description	Validations
<b>ResellerApiKey</b>	String	✓	Unique Key that identifies the Reseller	-Not null or empty -Must be a valid and existing Reseller Key in our system
<b>HOSClient</b>	JSON	✓	This will be the Client data to insert in our system	-Not null or empty -Following rules apply for each field into the JSON:
- HOSClientId	Integer		Will be 0 since it is a new Client to Insert	-N/A
- ExternalClientId	Integer	✓	Unique ID into all the Existing Clients linked to this Reseller	-Not null or empty -Greater than 0 -Must be a unique value, not existing yet into the existing list of Clients of this Reseller in our system
- CarrierId	String	✓	Carrier ID	-Not null or empty -Numeric value with a maximum of 9 digits
- CarrierName	String	✓	Carrier Name	-Not null or empty -String with a length between 4 and 120 characters
- CarrierAddress	String	✓	Carrier Address	-Not null or empty
- TimeZoneCode	Integer	✓	Time Zone Code (See Appendix 1, 1.2- Time Zone Codes)	-Not null or empty -Value between 0 and 7 -Default value 0
- CarrierCountry	Integer	✓	Carrier Country Code (See Appendix 1, 1.3- Carrier Country Codes)	-Not null or empty -Value between 1 and 3 -Default value 1
- ApiKey	String		Unique Key that identifies the Client. Will be autogenerated by the system	It should be null or empty. If value is provided then will be ignored
- DistanceUnitCode	Integer	✓	Distance Unit Code (See Appendix 1, 1.4- Units Codes)	-Value must be only 1 or 2 -Default value 1
- FuelUnitCode	Integer	✓	Fuel Unit Code (See Appendix 1, 1.4- Units Codes)	-Value must be only 1 or 2 -Default value 1
- DTCCodes	Integer		Activate Engine Diagnostic	-Value must be only 0 or 1 -Default value 0
- ActivateDriver	Integer		Allow client to activate drivers	-Value must be only 0 or 1 -Default value 0

- ECMAutomatic	Integer		Activate Automatic Driving immediately after vehicle moves	-Value must be only 0 or 1 -Default value 0
- ForceAssetSelection	Integer		Drivers must use portal assets list	-Value must be only 0 or 1 -Default value 0
- ForceECMLinkConnection	Integer		Force Asset/ECM-device connection	-Value must be only 0 or 1 -Default value 0
- SupportUserName	String		Support UserName	-If not null or empty then must have a minimum length of 6 characters
- SupportPassword	String		Support Password	-If field SupportUserName is provided then it cannot be null or empty
- CanadaEnabled	Integer		Enable Canada Compliance	-Value must be only 0 or 1 -Default value 0
- EnhancedIFTAEnabled	Integer		Enable Enhanced IFTA	-if not null or empty then must be only 0 or 1 -Default value 0 -Can be only 1 if Reseller has same attribute in 1
- WorkOrderEnabled	Integer		Enable WorkOrder	-if not null or empty then must be only 0 or 1 -Default value 0 -Can be only 1 if Reseller has same attribute in 1

### Sample JSON:

```
{
  "ResellerApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSClient":
    {
      "HOSClientId": 0,
      "ExternalClientId": 1468618028,
      "CarrierId": "8011",
      "CarrierName": "Carrier 8011",
      "CarrierAddress": "Address 8011",
      "TimeZoneCode": 0,
      "CarrierCountry": 1,
      "ApiKey": "",
      "DistanceUnitCode": 1,
      "FuelUnitCode": 1,
      "DTCCodes": 0,
      "ActivateDriver": 0,
      "ECMAutomatic": 0,
      "ForceAssetSelection": 0,
    }
}
```



```

        "ForceECMLinkConnection": 0,
        "SupportUserName": "abcdefghij",
        "SupportPassword": "abc",
        "CanadaEnabled": 0,
        "EnhacedIFTAEnabled": 0,
        "WorkOrderEnabled": 1
    }
}

```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include one Reseller's Client in a JSON format. It will have a specific structure (See Appendix 2, 2.1- BasicHOSClientDTO2 )

### Sample JSON:

-After an invalid input data sent:

```

{
  "code": 43,
  "data": null
}

```

-After a successful insertion API will send back the full data of Client inserted:

```

{
  "code": 1,
  "data":
    {
      "HOSClientId": 154,
      "ExternalClientId": 1468618028,
      "CarrierId": "8011",
      "CarrierName": "Carrier 8011",
      "TimeZoneCode": 0,
      "HOSPartnerId": 2,
      "CarrierAddress": "Address 8011",
      "CarrierCountry": 1,
      "DemoDateTime": "1900-01-01T00:00:00",
      "AccountType": 0,
      "ApiKey": "jRHBJSsh7x38wwNgLZ1hZjD4",
      "HOSBillingId": 9,
      "DistanceUnitCode": 1,
      "FuelUnitCode": 1,
      "WialonToken": "",
      "DTCCodes": 0,
      "ActivateDriver": false,
      "ECMAutomatic": false,
      "ForceAssetSelection": 0,
      "ForceECMLinkConnection": 0,
      "SupportUserName": "abcdefghij",
    }
}

```

```

        "SupportPassword": "abc",
        "CanadaEnabled": 0,
        "WorkOrderEnabled": 0,
        "EnhancedIFTAEnabled": 1
    }
}

```

#### 1.1.4- Update Client

**Method Call name:** /HOSClient/v2.0/UpdateHOSClientForReseller

**Functionality:** Will update an existing client for this Reseller

**Type of Method:** Post

#### Input Parameters

Field	Type	Required	Description	Validations
<b>ResellerApiKey</b>	String	✓	Unique Key that identifies the Reseller	-Not null or empty -Must be a valid and existing Reseller Key in our system
<b>HOSClient</b>	JSON	✓	This will be the Client data to insert in our system	-Not null or empty -Following rules apply for each field into the JSON:
- HOSClientId	Integer	✓	Unique Client ID in our system	-Not null or empty and also value > 0 -Must be a valid and existing HOS Client ID in our system linked to this Reseller
- ExternalClientId	Integer	✓	Unique ID into all the Existing Clients linked to this Reseller	-Not null or empty and also value > 0 -Must be a unique value, not existing yet into the existing list of Clients linked to this Reseller in our system
- CarrierId	String	✓	Carrier ID	-Not null or empty -Numeric value with a maximum of 9 digits
- CarrierName	String	✓	Carrier Name	-Not null or empty -String with a length between 4 and 120 characters
- CarrierAddress	String	✓	Carrier Address	-Not null or empty
- TimeZoneCode	Integer	✓	Time Zone Code (See Appendix 1, 1.2- Time Zone Codes)	-Not null or empty -Value between 0 and 7 -Default value 0
- CarrierCountry	Integer	✓	Carrier Country Code (See Appendix 1, 1.3- Carrier Country Codes)	-Not null or empty -Value between 1 and 3 -Default value 1
- ApiKey	String		Unique Key that identifies the Client	-Can be null or empty. If provided will be ignored
- DistanceUnitCode	Integer	✓	Distance Unit Code (See Appendix 1, 1.4- Units Codes)	-Value must be only 1 or 2 -Default value 1
- FuelUnitCode	Integer	✓	Fuel Unit Code	-Value must be only 1

			(See Appendix 1, 1.4- Units Codes)	or 2 -Default value 1
- DTCCodes	Integer		Activate Engine Diagnostic	-Value must be only 0 or 1 -Default value 0
- ActivateDriver	Integer		Allow client to activate drivers	-Value must be only 0 or 1 -Default value 0
- ECMAutomatic	Integer		Activate Automatic Driving immediately after vehicle moves	-Value must be only 0 or 1 -Default value 0
- ForceAssetSelection	Integer		Drivers must use portal assets list	-Value must be only 0 or 1 -Default value 0
- ForceECMLinkConnection	Integer		Force Asset/ECM-device connection	-Value must be only 0 or 1 -Default value 0
- SupportUserName	String		Support UserName	-If not null or empty then must have a minimum length of 6 characters
- SupportPassword	String		Support Password	-If field SupportUserName is provided then it cannot be null or empty
- CanadaEnabled	Integer		Enable Canada Compliance	-Value must be only 0 or 1 -Default value 0
- EnhancedIFTAEnabled	Integer		Enable Enhanced IFTA	-if not null or empty then must be only 0 or 1 -Default value 0 -Can be only 1 if Reseller has same attribute in 1. -It cannot be changed to 0 if was previously in 1
- WorkOrderEnabled	Integer		Enable WorkOrder	-if not null or empty then must be only 0 or 1 -Default value 0 -Can be only 1 if Reseller has same attribute in 1 -It cannot be changed to 0 if was previously in 1

### Sample JSON:

```
{
  "ResellerApiKey": "FBrDkvb1gg4Dae3EIf526RPn",
  "HOSClient":
    {
      "HOSClientId": 154,
      "ExternalClientId": 1468618028,
      "CarrierId": "8011",
      "CarrierName": "Carrier 8011",
      "CarrierAddress": "Address 8011",
    }
}
```

```

        "TimeZoneCode": 0,
        "CarrierCountry": 1,
        "ApiKey": "",
        "HOSBillingId": 9,
        "DistanceUnitCode": 1,
        "FuelUnitCode": 1,
        "WialonToken": "",
        "DTCCodes": 0,
        "ActivateDriver": false,
        "ECMAutomatic": false,
        "ForceAssetSelection": 0,
        "ForceECMLinkConnection": 0,
        "SupportUserName": "abcdefghij",
        "SupportPassword": "abc",
        "CanadaEnabled": 0,
        "WorkOrderEnabled": 0,
        "EnhancedIFTAEnabled": 1
    }
}

```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include one Reseller's Client in a JSON format. It will have a specific structure (See Appendix 2, 2.1- BasicHOSClientDTO )

### Sample JSON:

-After an invalid input data sent:

```

{
  "code": 43,
  "data": null
}

```

-After a successful update, API will send back the full data of Client updated:

```

{
  "code": 1,
  "data": [
    {
      "HOSClientId": 154,
      "ExternalClientId": 1468618028,
      "CarrierId": "8011",
      "CarrierName": "Carrier 8011",
      "TimeZoneCode": 0,
      "HOSPartnerId": 2,
      "CarrierAddress": "Address 8011",
      "CarrierCountry": 1,
      "DemoDateTime": "1900-01-01T00:00:00",
      "AccountType": 0,
    }
  ]
}

```

```

        "ApiKey": "jRHBJSsh7x38wwNgLZ1hZjD4",
        "HOSBillingId": 9,
        "DistanceUnitCode": 1,
        "FuelUnitCode": 1,
        "WialonToken": "",
        "DTCCodes": 0,
        "ActivateDriver": true,
        "ECMAutomatic": false,
        "ForceAssetSelection": 0,
        "ForceECMLinkConnection": 0,
        "SupportUserName": "abcdefghij",
        "SupportPassword": "abc",
        "CanadaEnabled": 0,
        "WorkOrderEnabled": 0,
        "EnhancedIFTAEnabled": 1
    }
}
]
}

```

### 1.1.5- Update Client And Update API Key

**Method Call name:**

/HOSClient/v2.0/UpdateHOSClientAndNewAPIKeyForReseller

**Functionality:** Will update an existing client for this Reseller and Regenerate a New API Key for the client

**Type of Method:** Post

**Input Parameters**

Field	Type	Required	Description	Validations
<b>ResellerApiKey</b>	String	✓	Unique Key that identifies the Reseller	-Not null or empty -Must be a valid and existing Reseller Key in our system
<b>HOSClient</b>	JSON	✓	This will be the Client data to insert in our system	-Not null or empty -Following rules apply for each field into the JSON:
- HOSClientId	Integer	✓	Unique Client ID in our system	-Not null or empty and also value > 0 -Must be a valid and existing HOS Client ID in our system linked to this Reseller
- ExternalClientId	Integer	✓	Unique ID into all the Existing Clients linked to this Reseller	-Not null or empty and also value > 0 -Must be a unique value, not existing yet into the existing list of Clients linked to this Reseller in our system
- CarrierId	String	✓	Carrier ID	-Not null or empty -Numeric value with a maximum of 9 digits
- CarrierName	String	✓	Carrier Name	-Not null or empty -String with a length between 4 and 120 characters

- CarrierAddress	String	✓	Carrier Address	-Not null or empty
- TimeZoneCode	Integer	✓	Time Zone Code (See Appendix 1, 1.2- Time Zone Codes)	-Not null or empty -Value between 0 and 7 -Default value 0
- CarrierCountry	Integer	✓	Carrier Country Code (See Appendix 1, 1.3- Carrier Country Codes)	-Not null or empty -Value between 1 and 3 -Default value 1
- ApiKey	String		Unique Key that identifies the Client	-Can be null or empty. If provided will be ignored
- DistanceUnitCode	Integer	✓	Distance Unit Code (See Appendix 1, 1.4- Units Codes)	-Value must be only 1 or 2 -Default value 1
- FuelUnitCode	Integer	✓	Fuel Unit Code (See Appendix 1, 1.4- Units Codes)	-Value must be only 1 or 2 -Default value 1
- DTCCodes	Integer		Activate Engine Diagnostic	-Value must be only 0 or 1 -Default value 0
- ActivateDriver	Integer		Allow client to activate drivers	-Value must be only 0 or 1 -Default value 0
- ECMAutomatic	Integer		Activate Automatic Driving immediately after vehicle moves	-Value must be only 0 or 1 -Default value 0
- ForceAssetSelection	Integer		Drivers must use portal assets list	-Value must be only 0 or 1 -Default value 0
- ForceECMLinkConnection	Integer		Force Asset/ECM-device connection	-Value must be only 0 or 1 -Default value 0
- SupportUserName	String		Support UserName	-If not null or empty then must have a minimum length of 6 characters
- SupportPassword	String		Support Password	-If field SupportUserName is provided then it cannot be null or empty
- CanadaEnabled	Integer		Enable Canada Compliance	-Value must be only 0 or 1 -Default value 0
- EnhacedIFTAEnabled	Integer		Enable Enhanced IFTA	-Value must be only 0 or 1 -Default value 0 -Can be only 1 if Reseller has same attribute in 1 -It cannot be changed to 0 if was previously in 1
- WorkOrderEnabled	Integer		Enable WorkOrder	-Value must be only 0 or 1 -Default value 0 -Can be only 1 if

				Reseller has same attribute in 1 -It cannot be changed to 0 if was previously in 1
--	--	--	--	---

### Sample JSON:

```
{
  "ResellerApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSClient": {
    "HOSClientId": 154,
    "ExternalClientId": 1468618028,
    "CarrierId": "8011",
    "CarrierName": "Carrier 8011",
    "CarrierAddress": "Address 8011",
    "TimeZoneCode": 0,
    "CarrierCountry": 1,
    "ApiKey": "",
    "HOSBillingId": 9,
    "DistanceUnitCode": 1,
    "FuelUnitCode": 1,
    "WialonToken": "",
    "DTCCodes": 0,
    "ActivateDriver": false,
    "ECMAutomatic": false,
    "ForceAssetSelection": 0,
    "ForceECMLinkConnection": 0,
    "SupportUserName": "abcdefghij",
    "SupportPassword": "abc",
    "CanadaEnabled": 0,
    "WorkOrderEnabled": 0,
    "EnhancedIFTAEnabled": 1
  }
}
```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well as an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include one Reseller's Client in a JSON format. It will have a specific structure (See Appendix 2, 2.1- BasicHOSClientDTO2 )

### Sample JSON:

-After an invalid input data sent:

```
{
  "code": 43,
  "data": null
}
```

-After a successful update, API will send back the full data of Client updated:

```
{
  "code": 1,
  "data": [
    {
      "HOSClientId": 154,
      "ExternalClientId": 1468618028,
      "CarrierId": "8011",
      "CarrierName": "Carrier 8011",
      "TimeZoneCode": 0,
      "HOSPartnerId": 2,
      "CarrierAddress": "Address 8011",
      "CarrierCountry": 1,
      "DemoDateTime": "1900-01-01T00:00:00",
      "AccountType": 0,
      "ApiKey": "jRHBJS7x38wwNgLZ1hZjD4",
      "HOSBillingId": 9,
      "DistanceUnitCode": 1,
      "FuelUnitCode": 1,
      "WialonToken": "",
      "DTCCodes": 0,
      "ActivateDriver": true,
      "ECMAutomatic": false,
      "ForceAssetSelection": 0,
      "ForceECMLinkConnection": 0,
      "SupportUserName": "abcdefghij",
      "SupportPassword": "abc",
      "CanadaEnabled": 0,
      "WorkOrderEnabled": 0,
      "EnhancedIFTAEnabled": 1
    }
  ]
}
```

## 1.2- For Drivers

### 1.2.1- Get All Drivers

**Method Call name:** /HOSDriver/v2.0/GetHOSDriversForReseller

**Functionality:** Will return the list of all Drivers with all or specific Driver Status of a specific Client for this Reseller

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>ResellerApiKey</b>	String	✓	Unique Key that identifies the Reseller	Must have a value as a valid and existing Reseller Key in our system
<b>ExternalClientID</b>	Integer	✓ It is Required if	Unique ID into all the Existing Clients linked to this	-Not null or empty and also value > 0 if <b>HOSClientId</b> is not



		<b>HOSClientid</b> is not provided	Reseller	provided -If provided must be an existing External Client ID linked to this Reseller in our system
<b>HOSClientid</b>	Integer	✓ It is Required if <b>ExternalClientID</b> is not provided	Unique Client ID in our system linked to this Reseller	-Not null or empty and also value > 0 if <b>ExternalClientID</b> is not provided -If provided must be a valid and existing HOS Client ID in our system
<b>DriverStatus</b>	Integer		Type of Driver Status that want to list, null or -1 for all, 1 for Active and 0 for Inactive	-Only valid values are: Null or -1 for all statuses, 1 for Active and 0 for Inactive (See Appendix 1, 1.12- Driver Status Codes )

Sample JSON:

-With ExternalClientid included

```
{
  "ResellerApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "ExternalClientID": 1468618028
}
```

-With HOSClientid and Drivers with Status Active only included

```
{
  "ResellerApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSClientid": 154,
  "DriverStatus": 1
}
```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Client's Drivers in a JSON format. Each list item will have a specific structure (See Appendix 2, 2.2- HOSDriverDTO)

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 42,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": [
    {
      "HOSDriverId": 1867,

```

```

"ExternalDriverId": 13065,
"Name": "Barry",
"LastName": "Tanemura",
"HOSUserName": "BarryTanemura",
"HOSPassword": "",
"IsActive": 1,
"HOSRuleSetId": 5,
"PersonalUse": 1,
"YardMove": 1,
"Exemption": 0,
"LicenseState": "BC",
"LicenseNumber": "5015067",
"Wifi": 1,
"DistanceUnitCode": 2,
"FuelUnitCode": 2,
"Starting24HTime": 0,
"TimeZoneCode": 3,
"AllowDriverExemptionSelection": 0,
"JurisdictionCode": 1,
"ExemptionReason": "",
"TakeDVIRPhotoEnabled": 0
},
{
"HOSDriverId": 1868,
"ExternalDriverId": 13066,
"Name": "Keith",
"LastName": "Halcro",
"HOSUserName": "KeithHalcro",
"HOSPassword": "",
"IsActive": 1,
"HOSRuleSetId": 5,
"PersonalUse": 1,
"YardMove": 1,
"Exemption": 0,
"LicenseState": "BC",
"LicenseNumber": "8438416",
"Wifi": 1,
"DistanceUnitCode": 2,
"FuelUnitCode": 2,
"Starting24HTime": 0,
"TimeZoneCode": 3,
"AllowDriverExemptionSelection": 0,
"JurisdictionCode": 1,
"ExemptionReason": "",
"TakeDVIRPhotoEnabled": 0
},
{
"HOSDriverId": 1869,
"ExternalDriverId": 13067,
"Name": "Wayne",

```

```

        "LastName": "Landriault",
        "HOSUserName": "WayneLandriault",
        "HOSPassword": "",
        "IsActive": 1,
        "HOSRuleSetId": 5,
        "PersonalUse": 1,
        "YardMove": 1,
        "Exemption": 0,
        "LicenseState": "BC",
        "LicenseNumber": "3016533",
        "Wifi": 1,
        "DistanceUnitCode": 2,
        "FuelUnitCode": 2,
        "Starting24HTime": 0,
        "TimeZoneCode": 3,
        "AllowDriverExemptionSelection": 0,
        "JurisdictionCode": 1,
        "ExemptionReason": "",
        "TakeDVIRPhotoEnabled": 0
    }
}

```

### 1.2.2- Get Driver

**Method Call name:** /HOSDriver/v2.0/GetHOSDriverForReseller

**Functionality:** Will return the data of a specific Driver of a specific Client of this Reseller

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>ResellerApiKey</b>	String	✓	Unique Key that identifies the Reseller	Must have a value as a valid and existing Reseller Key in our system
<b>ExternalClientID</b>	Integer	✓ It is Required if HOSClientID is not provided	Unique ID into all the Existing Clients linked to this Reseller	-Not null or empty and also value > 0 if <b>HOSClientID</b> is not provided -If provided must be a an existing External Client ID linked to this Reseller in our system
<b>HOSClientID</b>	Integer	✓ It is Required if ExternalClientID is not provided	Unique Client ID in our system linked to this Reseller	-Not null or empty and also value > 0 if <b>ExternalClientID</b> is not provided -If provided must be a valid and existing HOS Client ID in our system
<b>ExternalDriverID</b>	Integer	✓	Unique ID into all the Existing Driver linked to this Client of this Reseller	-Not null or empty and also value > 0 -Must be a an existing External Driver ID linked to this Client for this Reseller in our system

Sample JSON:

-With ExternalClientId included

```
{  
  "ResellerApiKey": "FBrDkbv1gg4Dae3EIf526RPn",  
  "ExternalClientID": 1468618028,  
  "ExternalDriverID": 653922  
}
```

-With HOSClientID included

```
{  
  "ResellerApiKey": "FBrDkbv1gg4Dae3EIf526RPn",  
  "HOSClientID": 154,  
  "ExternalDriverID": 653922  
}
```

Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include data of the Client's Driver requested in a JSON format. Driver data will have a specific structure (See Appendix 2, 2.2- HOSDriverDTO )

Sample JSON:

-After an invalid input data sent:

```
{  
  "code": 42,  
  "data": null  
}
```

-After a valid input data sent:

```
{  
  "code": 1,  
  "data": {  
    "HOSDriverId": 2008,  
    "ExternalDriverId": 13206,  
    "Name": "Curtis",  
    "LastName": "Rose",  
    "HOSUserName": "CurtisRose",  
    "HOSPassword": "",  
    "IsActive": 1,  
    "HOSRuleSetId": 5,  
    "PersonalUse": 1,  
    "YardMove": 1,  
    "Exemption": 0,  
    "LicenseState": "BC",  
    "LicenseNumber": "3485735",  
    "Wifi": 1,  
    "DistanceUnitCode": 2,  
    "FuelUnitCode": 2,  
    "Starting24HTime": 0,  
    "TimeZoneCode": 2,  
    "AllowDriverExemptionSelection": 0,  
    "JurisdictionCode": 1,  
    "ExemptionReason": "",  
    "TakeDVIRPhotoEnabled": 0  
  }  
}
```

}

### 1.2.3- Add Driver

**Functionality:** Will insert a new Driver for a specific Client for this Reseller

**Method Call name:** /HOSDriver/v2.0/InsertHOSDriverForReseller

**Type of Method:** Post

#### Input Parameters

Field	Type	Required	Description	Validations
<b>ResellerApiKey</b>	String	✓	Unique Key that identifies the Reseller	-Not null or empty -Must be a valid and existing Reseller Key in our system
<b>HOSClientId</b>	Integer	✓ It is Required if <b>ExternalClientId</b> is not provided	Unique Client ID in our system linked to this Reseller	-Not null or empty and also value > 0 if <b>ExternalClientId</b> is not provided -Must be a valid and existing HOS Client ID in our system
<b>ExternalClientId</b>	Integer	✓ It is Required if <b>HOSClientId</b> is not provided	Unique ID into all the Existing Clients linked to this Reseller	-Not null or empty and also value > 0 if <b>HOSClientId</b> is not provided -If provided must be a an existing External Client ID linked to this Reseller in our system
<b>HOSDriver</b>	JSON	✓	This will be the Client data to insert in our system	-Not null or empty -Following rules apply for each field into the JSON:
- <b>HOSDriverId</b>	Integer		Will be 0 since it is a new Driver to Insert	-N/A
- <b>ExternalDriverId</b>	Integer	✓	Unique ID into all the Existing Drivers linked to this Client and this Reseller	-Not null or empty -Greater than 0 -Must be a unique value, not existing yet into the existing list of Drivers of this Client and this Reseller in our system. -Cannot be updated
- <b>Name</b>	String	✓	Driver Name	-Not null or empty -String with a length between 2 and 30 characters
- <b>LastName</b>	String	✓	Driver LastName	-Not null or empty -String with a length between 2 and 30 characters
- <b>HOSUserName</b>	String	✓	HOS UserName	-Not null or empty -String with a length between 2 and 30 characters
- <b>HOSPassword</b>	String	✓	HOS Password	-Not null or empty
- <b>IsActive</b>	Integer	✓	Flag to identify if Driver is Active or not. Default value 0	-if null or empty then default value will be assigned (0) -Value must be only 0

				or 1 -Cannot be 1 if HOS Client doesn't have Activate Driver Permission
- HOSRuleSetId	Integer	✓	Code from Rule Set. (See Appendix 1, 1.5- RuleSet Codes) Default value 0	-if null or empty then will have default value (0) -Must be one of the existing RuleSet Codes Ids
- PersonalUse	Integer	✓	Enable Personal Use Default value 0	-Value must be only 0 or 1 -if null or empty, will have default value (0)
- YardMove	Integer	✓	Enable Yard Move Default value 0	-Value must be only 0 or 1 -if null or empty then will have default value (0)
- Exemption	Integer	✓	Indicates On Exception mode Default value 0	-Value must be only 0 or 1 -if null or empty then will have default value (0)
- LicenseState	String	✓	2 characters long State Code of Driver License (See Appendix 1, 1.6- States Codes)	-Not null or empty -Must be one of the existing State Codes of Driver License
- LicenseNumber	String	✓	Driver License Number	-Not null or empty -String with a maximum length of 20
- Wifi	Integer		Indicates Wifi connection Allowed Default value 0	-Value must be only 0 or 1 -if null or empty then will have default value (0)
- DistanceUnitCode	Integer	✓	Code from Unit Codifier (See Appendix 1, 1.4- Units Codes)	-Value must be only 1 or 2
- FuelUnitCode	Integer	✓	Code from Unit Codifier (See Appendix 1, 1.4- Units Codes)	-Value must be only 1 or 2
- Starting24HTime	Integer	✓	Code from 24Hours Starting Time (See Appendix 1, 1.8 24 hours Period Starting Time Codes) Default value 0	-Value between 0 and 1 -if null or empty then will have default value (0)
- AllowDriverExemptionSelection	Integer	✓	Indicates if Driver can change Exemption Selection from Phone Default value 0	-Value between 0 and 1 -if null or empty then will have default value (0)
- JurisdictionCode	Integer	✓	Code from Jurisdiction	If HOSRuleSetId is a Canada Rule

			Codifier (See Appendix 1, 1.7- Jurisdiction Codes) Default value 3	(CANADA_70H or CANADA_120H) then Value must be only 1 or 2 -Else if HOSRuleSetId is NOT a Canada Rule, then Value must be only 3 -if null or empty then will have default value (3)
- ExemptionReason	String	✓ It is Required if Exemption value is 1	Reason for Exemption	-if Exemption value is 1 then it cannot be null or empty
- HOSHomeBaseId	Integer		Home Base Unique Identifier Default value 0	- If not null, empty or 0 then it must be a valid HomeBaseID for this specific HOSClient
- TakeDVIRPhotoEnabled	Integer		Flag to indicate if Driver can take photo for DVIR. Default value 1	-if not null or empty then it must be only 1 or 0.

Sample JSON:

-With ExternalClientId included

```
{
  "ResellerApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "ExternalClientId": 1468618029,
  "HOSDriver":
  {
    "HOSDriverId": 0,
    "HOSUserName": "abcdefg",
    "HOSPassword": "900150983cd24fb0d6963f7d28e17f72",
    "ExternalDriverId": 1468618011,
    "Name": "test",
    "LastName": "testing",
    "IsActive": 1,
    "HOSRuleSetId": 1,
    "PersonalUse": 1,
    "YardMove": 0,
    "Exemption": 0,
    "LicenseState": "FL",
    "LicenseNumber": "12312121",
    "Wifi": 0,
    "DistanceUnitCode": 1,
    "FuelUnitCode": 1,
    "Starting24HTime": 0,
    "AllowDriverExemptionSelection": 0,
    "JurisdictionCode": 3,
    "ExemptionReason": "test",
    "HOSHomeBaseId": 3,
    "TakeDVIRPhotoEnabled" : 0
  }
}
```

```
}
```

### -With HOSClientId included

```
{  
  "ResellerApiKey": "FBrDkbvlgg4Dae3EIf526Rpn",  
  "HOSClientId": 345,  
  "HOSDriver":  
  
  {  
    "HOSDriverId": 0,  
    "HOSUserName": "abcdefg",  
    "HOSPassword": "900150983cd24fb0d6963f7d28e17f72",  
    "ExternalDriverId": 1468618011,  
    "Name": "test",  
    "LastName": "testing",  
    "IsActive": 1,  
    "HOSRuleSetId": 1,  
    "PersonalUse": 1,  
    "YardMove": 0,  
    "Exemption": 0,  
    "LicenseState": "FL",  
    "LicenseNumber": "12312121",  
    "Wifi": 0,  
    "DistanceUnitCode": 1,  
    "FuelUnitCode": 1,  
    "Starting24HTime": 0,  
    "AllowDriverExemptionSelection": 0,  
    "JurisdictionCode": 3,  
    "ExemptionReason": "test",  
    "HOSHomeBaseId": 3,  
    "TakeDVIRPhotoEnabled" : 0  
  }  
}
```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include one Client's Driver in a JSON format. It will have a specific structure (See Appendix 2, 2.2- HOSDriverDTO)

### Sample JSON:

-After an invalid input data sent:

```
{  
  "code": 43,  
  "data": null  
}
```



-After a successful insertion API will send back the full data of Driver inserted:

```

{
  "code": 1,
  "data":
    {
      "HOSDriverId": 2747,
      "ExternalDriverId": 12963,
      "Name": "NameEC90",
      "LastName": "LastEC390",
      "HOSUserName": "UserNN390",
      "HOSClientId": 91,
      "IsActive": 0,
      "HasPassword": 1,
      "HOSRuleSetId": 1,
      "PersonalUse": 1,
      "YardMove": 1,
      "Exemption": 0,
      "LicenseState": "FL",
      "LicenseNumber": "12345NN89390",
      "ExternalName": "",
      "Wifi": 1,
      "ELDOperatingMode": 0,
      "DistanceUnitCode": 1,
      "FuelUnitCode": 1,
      "Starting24HTime": 0,
      "RuleSetTimestamp": 0,
      "HOSHomeBaseId": 3,
      "TimeZoneCode": 3,
      "AllowDriverExemptionSelection": 0,
      "JurisdictionCode": 3,
      "ExemptionReason": "",
      "TakeDVIRPhotoEnabled" : 0
    }
}

```

### 1.2.4- Update Driver

**Functionality:** Will update an existing Driver for a specific Client for this Reseller

**Method Call name:** /HOSDriver/v2.0/UpdateHOSDriverForReseller

**Type of Method:** Post

#### Input Parameters

Field	Type	Required	Description	Validations
<b>ResellerApiKey</b>	String	✓	Unique Key that identifies the Reseller	-Not null or empty -Must be a valid and existing Reseller Key in our system
<b>HOSClientId</b>	Integer	✓ It is Required if <b>ExternalClientID</b> is not	Unique Client ID in our system linked to this Reseller	-Not null or empty and also value > 0 if <b>ExternalClientID</b> is not provided -Must be a valid and

		provided		existing HOS Client ID in our system
<b>ExternalClientID</b>	Integer	✓  It is Required if <b>HOSClientID</b> is not provided	Unique ID into all the Existing Clients linked to this Reseller	-Not null or empty and also value > 0 if <b>HOSClientID</b> is not provided -If provided must be a an existing External Client ID linked to this Reseller in our system
<b>HOSDriver</b>	JSON	✓	This will be the Client data to insert in our system	-Not null or empty -Following rules apply for each field into the JSON:
- <b>HOSDriverId</b>	Integer	✓	Unique ID	-Not null or empty -Greater than 0 -Must be a unique value and existing DriverID
- <b>ExternalDriverId</b>	Integer	✓	Unique ID into all the Existing Drivers linked to this Client and this Reseller	-Not null or empty -Greater than 0 -Must be a unique value, same as previous value or not existing yet into the existing list of Drivers of this Client and this Reseller in our system
- <b>Name</b>	String	✓	Driver Name	-Not null or empty -String with a length between 2 and 30 characters
- <b>LastName</b>	String	✓	Driver LastName	-Not null or empty -String with a length between 2 and 30 characters
- <b>HOSUserName</b>	String	✓	HOS UserName	-Not null or empty -String with a minimum length of 4 -If previous UserName was not empty or null then need to be the same than previous value, then cannot be changed
- <b>HOSPassword</b>	String	✓	HOS Password	-Not null or empty
- <b>IsActive</b>	Integer	✓	Flag to identify if Driver is Active or not Default value 0	-if null or empty then will have default value (0) -Value must be only 0 or 1 -Cannot be 1 if HOS Client doesn't have Activate Driver Permission
- <b>HOSRuleSetId</b>	Integer	✓	Code from Rule Set. (See Appendix 1, 1.5- RuleSet Codes) Default value 0	-if null or empty then will have default value (0) -Must be one of the existing RulseSet Codes Ids
- <b>PersonalUse</b>	Integer	✓	Enable Personal	-Value must be only 0

			Use Default value 0	or 1 -if null or empty, will have default value (0)
- YardMove	Integer	✓	Enable Yard Move Default value 0	-Value must be only 0 or 1 -if null or empty then will have default value (0)
- Exemption	Integer	✓	Indicates On Exception mode Default value 0	-Value must be only 0 or 1 -if null or empty then will have default value (0)
- LicenseState	String	✓	2 characters long State Code of Driver License (See Appendix 1, 1.6- States Codes)	-Not null or empty -Must be one of the existing State Codes of Driver License
- LicenseNumber	String	✓	Driver License Number	-Not null or empty -String with a maximum length of 20
- Wifi	Integer		Indicates Wifi connection Allowed Default value 0	-Value must be only 0 or 1 -if null or empty then will have default value (0)
- DistanceUnitCode	Integer	✓	Code from Unit Codifier (See Appendix 1, 1.4- Units Codes)	-Value must be only 1 or 2
- FuelUnitCode	Integer	✓	Code from Unit Codifier (See Appendix 1, 1.4- Units Codes)	-Value must be only 1 or 2
- Starting24HTime	Integer	✓	Code from 24Hours Starting Time (See Appendix 1, 1.8 24 hours Period Starting Time Codes) Default value 0	-Value between 0 and 1 -if null or empty then will have default value (0)
- AllowDriverExemption Selection	Integer	✓	Indicates if Driver can change Exemption Selection from Phone Default value 0	-Value between 0 and 1 -if null or empty then will have default value (0)
- JurisdictionCode	Integer	✓	Code from Jurisdiction Codifier (See Appendix 1, 1.7- Jurisdiction Codes) Default value 3	If HOSRuleSetId is a Canada Rule (CANADA_70H or CANADA_120H) then Value must be only 1 or 2 -Else if HOSRuleSetId is NOT a Canada Rule, then Value must be only 3 -if null or empty then will have default value (3)
- ExemptionReason	String	✓	Reason for	-if Exemption value is

		It is Required if Exemption value is 1	Exemption	1 then it cannot be null or empty
- HOSHHomeBaseId	Integer		Home Base Unique Identifier Default value 0	- If not null, empty or 0 then it must be a valid HomeBaseID for this specific HOSClient
- TakeDVIRPhotoEnabled	Integer		Flag to indicate if Driver can take photo for DVIR. Default value 1	-if not null or empty then it must be only 1 or 0.

### Sample JSON:

-With ExternalClient ID included:

```
{
  "ResellerApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "ExternalClientId": 1468618029,
  "HOSDriver":
    {
      "HOSDriverId": 2176,
      "HOSUserName": "abcdefg",
      "HOSPassword": "900150983cd24fb0d6963f7d28e17f72",
      "ExternalDriverId": 1468618011,
      "Name": "test",
      "LastName": "testing",
      "IsActive": 1,
      "HOSRuleSetId": 1,
      "PersonalUse": 1,
      "YardMove": 0,
      "Exemption": 0,
      "LicenseState": "FL",
      "LicenseNumber": "12312121",
      "Wifi": 0,
      "DistanceUnitCode": 1,
      "FuelUnitCode": 1,
      "Starting24HTime": 0,
      "AllowDriverExemptionSelection": 0,
      "JurisdictionCode": 3,
      "ExemptionReason": "test",
      "HOSHHomeBaseId": 3,
      "TakeDVIRPhotoEnabled" : 0
    }
}
```

-With HOSClientID included:

```
{
  "ResellerApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSClientId": 345,
  "HOSDriver":
    {
      "HOSDriverId": 2176,
```

```

        "HOSUserName": "abcdefg",
        "HOSPassword": "900150983cd24fb0d6963f7d28e17f72",
        "ExternalDriverId": 1468618011,
        "Name": "test",
        "LastName": "testing",
        "IsActive": 1,
        "HOSRuleSetId": 1,
        "PersonalUse": 1,
        "YardMove": 0,
        "Exemption": 0,
        "LicenseState": "FL",
        "LicenseNumber": "12312121",
        "Wifi": 0,
        "DistanceUnitCode": 1,
        "FuelUnitCode": 1,
        "Starting24HTime": 0,
        "AllowDriverExemptionSelection": 0,
        "JurisdictionCode": 3,
        "ExemptionReason": "test",
        "HOSHHomeBaseId": 3,
        "TakeDVIRPhotoEnabled" : 1
    }
}

```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include same Client's Driver after update in a JSON format. It will have a specific structure (See Appendix 2, 2.2- HOSDriverDTO)

### Sample JSON:

-After an invalid input data sent:

```

{
  "code": 43,
  "data": null
}

```

-After a successful update API will send back the full data of Client inserted:

```

{
  "code": 1,
  "data":
    {
      "HOSDriverId": 2747,
      "ExternalDriverId": 12963,
      "Name": "NameEC90",
      "LastName": "LastEC390",
      "HOSUserName": "UserNN390",

```

```

        "HOSClientId": 91,
        "IsActive": 0,
        "HasPassword": 1,
        "HOSRuleSetId": 1,
        "PersonalUse": 1,
        "YardMove": 1,
        "Exemption": 0,
        "LicenseState": "FL",
        "LicenseNumber": "12345NN89390",
        "ExternalName": "",
        "Wifi": 1,
        "ELDOperatingMode": 0,
        "DistanceUnitCode": 1,
        "FuelUnitCode": 1,
        "Starting24HTime": 0,
        "RuleSetTimestamp": 0,
        "HOSHomeBaseId": 3,
        "TimeZoneCode": 3,
        "AllowDriverExemptionSelection": 0,
        "JurisdictionCode": 3,
        "ExemptionReason": "",
        "TakeDVIRPhotoEnabled" : 0
    }
}

```

## 2- Available for Clients

### 2.1- For Client

#### 2.1.1- Get Client

**Functionality:** Will return the data of this Client

**Method Call name:** `/HOSClient/v2.0/GetHOSClientForClient`

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<code>HOSClientApiKey</code>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must be a valid and existing Client Key in our system

#### Sample JSON:

```

{
  "HOSClientApiKey": "RfrDkbv1334Hae3EIf526RQn"
}

```

#### Output Parameters

Field	Type	Description
<code>code</code>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<code>data</code>	JSON	-Will return Null if any error happened which means that <code>code</code> value is different of 1 -Will include Client Data in a JSON format. It will have a specific structure (See Appendix 2, 2.1- BasicHOSClientDTO2 )

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 43,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": {
    "HOSClientId": 18,
    "ExternalClientId": 14686177,
    "CarrierId": "12",
    "CarrierName": "12",
    "CarrierAddress": "12",
    "TimeZoneCode": 0,
    "CarrierCountry": 1,
    "ApiKey": "12",
    "DistanceUnitCode": 1,
    "FuelUnitCode": 1,
    "DTCCodes": 0,
    "ActivateDriver": 0,
    "ECMAutomatic": 0,
    "ForceAssetSelection": 0,
    "ForceECMLinkConnection": 0,
    "SupportUserName": "",
    "SupportPassword": "",
    "CanadaEnabled": 0,
    "WorkOrderEnabled": 0,
    "EnhancedIFTAEnabled": 0
  }
}
```

### 2.1.2- Update Client

**Functionality:** Will update data of this Client

**Method Call name:** /HOSClient/v2.0/UpdateHOSClientForClient

**Type of Method:** Post

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Reseller	-Not null or empty -Must be a valid and existing Reseller Key in our system
<b>HOSClient</b>	JSON	✓	This will be the Client data to insert in our system	-Not null or empty -Following rules apply for each field into the JSON:
- HOSClientId	Integer	✓	Unique Client	-Not null or empty and

			ID in our system	also value > 0 -Must be a valid and existing HOS Client ID in our system and Key must match with <b>HOSClientApiKey</b>
- ExternalClientId	Integer	✓	Unique ID into all the Existing Clients linked to this Reseller	-Not null or empty and also value > 0 -Must be a unique value, not existing yet into the existing list of Clients linked to this Reseller in our system
- CarrierId	String	✓	Carrier ID	-Not null or empty -Numeric value with a maximum of 9 digits
- CarrierName	String	✓	Carrier Name	-Not null or empty -String with a length between 4 and 120 characters
- CarrierAddress	String	✓	Carrier Address	-Not null or empty
- TimeZoneCode	Integer	✓	Time Zone Code (See Appendix 1, 1.2- Time Zone Codes) Default value 0	-if null or empty then gets default value (0) -Value between 0 and 7
- CarrierCountry	Integer	✓	Carrier Country Code (See Appendix 1, 1.3- Carrier Country Codes)	-Not null or empty -Value between 1 and 3
- ApiKey	String		Unique Key that identify this Client. It is autogenerated by the system	-Can be null or empty. If provided will be ignored
- DistanceUnitCode	Integer	✓	Distance Unit Code (See Appendix 1, 1.4- Units Codes)	-Value must be only 1 or 2
- FuelUnitCode	Integer	✓	Fuel Unit Code (See Appendix 1, 1.4- Units Codes)	-Value must be only 1 or 2
- ActivateDriver	Integer		Allow client to activate drivers	-Value must be only 0 or 1 -Default value 0
- ECMAutomatic	Integer		Activate Automatic Driving immediately after vehicle moves	-Value must be only 0 or 1 -Default value 0
- ForceAssetSelection	Integer		Drivers must use portal assets list	-Value must be only 0 or 1 -Default value 0
- ForceECMLinkConnection	Integer		Force Asset/ECM-device connection	-Value must be only 0 or 1 -Default value 0
- SupportUserName	String		Support UserName	-If not null or empty then must have a minimum



				length of 6 characters
- SupportPassword	String		Support Password	-If field SupportUserName is provided then it cannot be null or empty
- CanadaEnabled	Integer		Enable Canada Compliance	-Value must be only 0 or 1 -Default value 0
- EnhancedIFTAEnabled	Integer		Enable Enhanced IFTA	-if not null or empty then must be only 0 or 1 -Default value 0 -Will be ignored since Client cannot change the current value
- WorkOrderEnabled	Integer		Enable WorkOrder	-if not null or empty then must be only 0 or 1 -Default value 0 -Will be ignored since Client cannot change the current value

**Sample JSON:**

```
{
  "HOSClientApiKey": "FBrDkbvlgg4Dae3EIf526RPn",
  "HOSClient": {
    "HOSClientId": 154,
    "ExternalClientId": 1468618028,
    "CarrierId": "8011",
    "CarrierName": "Carrier 8011",
    "CarrierAddress": "Address 8011",
    "TimeZoneCode": 0,
    "CarrierCountry": 1,
    "ApiKey": "",
    "DistanceUnitCode": 1,
    "FuelUnitCode": 1,
    "ActivateDriver": 1,
    "ECMAutomatic": 0,
    "ForceAssetSelection": 0,
    "ForceECMLinkConnection": 0,
    "SupportUserName": "abcdefghijkl",
    "SupportPassword": "abc",
    "CanadaEnabled": 0,
    "WorkOrderEnabled": 1,
    "EnhancedIFTAEnabled": 1
  }
}
```

**Output Parameters**

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include one Reseller's Client in a JSON format. It will have a specific structure (See Appendix 2, 2.1- BasicHOSClientDTO2 )

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 43,
  "data": null
}
```

-After a successful update API will send back the full data of this Client updated:

```
{
  "code": 1,
  "data": {
    "HOSClientId": 154,
    "ExternalClientId": 1468618028,
    "CarrierId": "8011",
    "CarrierName": "Carrier 8011",
    "TimeZoneCode": 0,
    "HOSPartnerId": 2,
    "CarrierAddress": "Address 8011",
    "CarrierCountry": 1,
    "DemoDateTime": "1900-01-01T00:00:00",
    "AccountType": 0,
    "ApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
    "HOSBillingId": 9,
    "DistanceUnitCode": 1,
    "FuelUnitCode": 1,
    "WialonToken": "",
    "DTCCodes": 0,
    "ActivateDriver": true,
    "ECMAutomatic": false,
    "ForceAssetSelection": 0,
    "ForceECMLinkConnection": 0,
    "SupportUserName": "abcdefghij",
    "SupportPassword": "abc",
    "CanadaEnabled": 0,
    "WorkOrderEnabled": 1,
    "EnhancedIFTAEnabled": 1
  }
}
```

### 2.1.3- Update Client And Update API Key

**Functionality:** Will update data of this Client and Regenerate API Key

**Method Call name:** /HOSClient/v2.0/UpdateHOSClientAndNewAPIKeyForClient

**Type of Method:** Post

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Reseller	-Not null or empty -Must be a valid and existing Reseller Key in our system

<b>HOSClient</b>	JSON	✓	This will be the Client data to insert in our system	-Not null or empty -Following rules apply for each field into the JSON:
- HOSClientId	Integer	✓	Unique Client ID in our system	-Not null or empty and also value > 0 -Must be a valid and existing HOS Client ID in our system and Key must match with <b>HOSClientApiKey</b>
- ExternalClientId	Integer	✓	Unique ID into all the Existing Clients linked to this Reseller	-Not null or empty and also value > 0 -Must be a unique value, not existing yet into the existing list of Clients linked to this Reseller in our system
- CarrierId	String	✓	Carrier ID	-Not null or empty -Numeric value with a maximum of 9 digits
- CarrierName	String	✓	Carrier Name	-Not null or empty -String with a length between 4 and 120 characters
- CarrierAddress	String	✓	Carrier Address	-Not null or empty
- TimeZoneCode	Integer	✓	Time Zone Code (See Appendix 1, 1.2- Time Zone Codes)	-Not null or empty -Value between 0 and 7
- CarrierCountry	Integer	✓	Carrier Country Code (See Appendix 1, 1.3- Carrier Country Codes)	-Not null or empty -Value between 1 and 3
- ApiKey	String		Unique Key that identify this Client. It is autogenerated by the system	-Can be null or empty. If provided will be ignored
- DistanceUnitCode	Integer	✓	Distance Unit Code (See Appendix 1, 1.4- Units Codes)	-Value must be only 1 or 2
- FuelUnitCode	Integer	✓	Fuel Unit Code (See Appendix 1, 1.4- Units Codes)	-Value must be only 1 or 2
- ActivateDriver	Integer		Allow client to activate drivers	-Value must be only 0 or 1 -Default value 0
- ECMAutomatic	Integer		Activate Automatic Driving immediately after vehicle moves	-Value must be only 0 or 1 -Default value 0
- ForceAssetSelection	Integer		Drivers must use portal assets list	-Value must be only 0 or 1 -Default value 0
- ForceECMLinkConnection	Integer		Force	-Value must be only 0

			Asset/ECM- device connection	or 1 -Default value 0
- SupportUserName	String		Support UserName	-If not null or empty then must have a minimum length of 6 characters
- SupportPassword	String		Support Password	-If field SupportUserName is provided then it cannot be null or empty
- CanadaEnabled	Integer		Enable Canada Compliance	-Value must be only 0 or 1 -Default value 0
- EnhancedIFTAEnabled	Integer		Enable Enhanced IFTA	-if not null or empty then must be only 0 or 1 -Default value 0 -Can be only 1 if Reseller has same attribute in 1
- WorkOrderEnabled	Integer		Enable WorkOrder	-if not null or empty then must be only 0 or 1 -Default value 0 -Can be only 1 if Reseller has same attribute in 1

Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSClient":
  {
    "HOSClientId": 154,
    "ExternalClientId": 1468618028,
    "CarrierId": "8011",
    "CarrierName": "Carrier 8011",
    "CarrierAddress": "Address 8011",
    "TimeZoneCode": 0,
    "CarrierCountry": 1,
    "ApiKey": "",
    "DistanceUnitCode": 1,
    "FuelUnitCode": 1,
    "ActivateDriver": 1,
    "ECMAutomatic": 0,
    "ForceAssetSelection": 0,
    "ForceECMLinkConnection": 0,
    "SupportUserName": "abcdefghij",
    "SupportPassword": "abc",
    "CanadaEnabled": 0,
    "WorkOrderEnabled": 0,
    "EnhancedIFTAEnabled": 0
  }
}
```

## Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include one Reseller's Client in a JSON format. It will have a specific structure (See Appendix 2, 2.1- HOSBasicHOSClientDTO)

### Sample JSON:

-After an invalid input data sent:

```
{
  "code": 43,
  "data": null
}
```

-After a successful update API will send back the full data of this Client updated:

```
{
  "code": 1,
  "data": {
    "HOSClientId": 154,
    "ExternalClientId": 1468618028,
    "CarrierId": "8011",
    "CarrierName": "Carrier 8011",
    "TimeZoneCode": 0,
    "HOSPartnerId": 2,
    "CarrierAddress": "Address 8011",
    "CarrierCountry": 1,
    "DemoDateTime": "1900-01-01T00:00:00",
    "AccountType": 0,
    "ApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
    "HOSBillingId": 9,
    "DistanceUnitCode": 1,
    "FuelUnitCode": 1,
    "WialonToken": "",
    "DTCCodes": 0,
    "ActivateDriver": true,
    "ECMAutomatic": false,
    "ForceAssetSelection": 0,
    "ForceECMLinkConnection": 0,
    "SupportUserName": "abcdefghij",
    "SupportPassword": "abc",
    "CanadaEnabled": 0,
    "WorkOrderEnabled": 0,
    "EnhancedIFTAEnabled": 0
  }
}
```

### 2.1.4- Get Client by External Id

**Functionality:** Will return the data of this Client by Partner Id and External Client Id

**Method Call name:** /HOSClient/v2.0/GetHOSClientForClientByExternalId

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>ExternalClientId</b>	Integer	✓	Unique Key that identifies the Client in the Client system and in our system	-Not null or empty -Must be a valid and existing External Client Id in our system
<b>HOSPartnerId</b>	Integer	✓	Unique Key that identifies the Partner in our system	-Not null or empty -Must be a valid and existing Partner Id in our system

#### Sample JSON:

```
{  
  "ExternalClientId": 14686177,  
  "HOSPartnerId": 1  
}
```

#### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that <b>code</b> value is different of 1 -Will include Client Data in a JSON format. It will have a specific structure (See Appendix 2, 2.1- BasicHOSClientDTO2 )

#### Sample JSON:

-After an invalid input data sent:

```
{  
  "code": 60,  
  "data": null  
}
```

-After a valid input data sent:

```
{  
  "code": 1,  
  "data":  
  {  
    "HOSClientId": 18,  
    "ExternalClientId": 14686177,  
    "CarrierId": "12",  
    "CarrierName": "12",  
    "CarrierAddress": "12",  
  }  
}
```

```

        "TimeZoneCode": 0,
        "CarrierCountry": 1,
        "ApiKey": "12",
        "DistanceUnitCode": 1,
        "FuelUnitCode": 1,
        "DTCCodes": 0,
        "ActivateDriver": 0,
        "ECMAutomatic": 0,
        "ForceAssetSelection": 0,
        "ForceECMLinkConnection": 0,
        "SupportUserName": "",
        "SupportPassword": "",
        "CanadaEnabled": 0,
        "WorkOrderEnabled": 0,
        "EnhancedIFTAEnabled": 0
    }
}

```

## 2.2- For Drivers

### 2.2.1- Get All Drivers

**Method Call name:** /HOSDriver/v2.0/GetHOSDriversForClient

**Functionality:** Will return the list of all Drivers with all or specific Driver Status of this specific Client

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>DriverStatus</b>	Integer		Type of Driver Status that want to list, null or -1 for all, 1 for Active and 0 for Inactive	-Only valid values are: Null or -1 for all statuses, 1 for Active and 0 for Inactive (See Appendix 1, 1.12- Driver Status Codes )

#### Sample JSON:

- No Status specified, All statuses:

```

{
  "HOSClientApiKey": "FBrDkbvlgg4Dae3EIf526RPn"
}

```

-Only Active Status Driver:

```

{
  "HOSClientApiKey": "FBrDkbvlgg4Dae3EIf526RPn",
  "DriverStatus": 1
}

```

#### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)

<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Client's Drivers in a JSON format. Each list item will have a specific structure (See Appendix 2, 2.2- HOSDriverDTO)
-------------	------	--

**Sample JSON:**

**-After an invalid input data sent:**

```
{
  "code": 42,
  "data": null
}
```

**-After a valid input data sent:**

```
{
  "code": 1,
  "data": [
    {
      "HOSDriverId": 1867,
      "ExternalDriverId": 13065,
      "Name": "Barry",
      "LastName": "Tanemura",
      "HOSUserName": "BarryTanemura",
      "HOSPassword": "",
      "IsActive": 1,
      "HOSRuleSetId": 5,
      "PersonalUse": 1,
      "YardMove": 1,
      "Exemption": 0,
      "LicenseState": "BC",
      "LicenseNumber": "5015067",
      "Wifi": 1,
      "DistanceUnitCode": 2,
      "FuelUnitCode": 2,
      "Starting24HTime": 0,
      "TimeZoneCode": 3,
      "AllowDriverExemptionSelection": 0,
      "JurisdictionCode": 1,
      "ExemptionReason": "",
      "TakeDVIRPhotoEnabled" : 0
    },
    {
      "HOSDriverId": 1868,
      "ExternalDriverId": 13066,
      "Name": "Keith",
      "LastName": "Halcro",
      "HOSUserName": "KeithHalcro",
      "HOSPassword": "",
      "IsActive": 1,
      "HOSRuleSetId": 5,
      "PersonalUse": 1,
      "YardMove": 1,
    }
  ]
}
```



```

    "Exemption": 0,
    "LicenseState": "BC",
    "LicenseNumber": "8438416",
    "Wifi": 1,
    "DistanceUnitCode": 2,
    "FuelUnitCode": 2,
    "Starting24HTime": 0,
    "TimeZoneCode": 3,
    "AllowDriverExemptionSelection": 0,
    "JurisdictionCode": 1,
    "ExemptionReason": "",
    "TakeDVIRPhotoEnabled" : 0
  },
  {
    "HOSDriverId": 1869,
    "ExternalDriverId": 13067,
    "Name": "Wayne",
    "LastName": "Landriault",
    "HOSUserName": "WayneLandriault",
    "HOSPassword": "",
    "IsActive": 1,
    "HOSRuleSetId": 5,
    "PersonalUse": 1,
    "YardMove": 1,
    "Exemption": 0,
    "LicenseState": "BC",
    "LicenseNumber": "3016533",
    "Wifi": 1,
    "DistanceUnitCode": 2,
    "FuelUnitCode": 2,
    "Starting24HTime": 0,
    "TimeZoneCode": 3,
    "AllowDriverExemptionSelection": 0,
    "JurisdictionCode": 1,
    "ExemptionReason": "",
    "TakeDVIRPhotoEnabled": 0
  }
]
}

```

## 2.2.2- Get Driver

**Method Call name:** */HOSDriver/v2.0/GetHOSDriverForClient*

**Functionality:** *Will return the data of a specific Driver of this specific Client*

**Type of Method:** *Get*

### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system

<b>HOSDriverId</b>	Integer	✓ It is Required if <b>ExternalDriverID</b> is not provided	Unique Driver ID in our system linked to this Client	-Not null or empty and also value > 0 if <b>ExternalDriverID</b> is not provided -If provided must be a valid and existing HOS Driver ID in our system
<b>ExternalDriverID</b>	Integer	✓ It is Required if <b>HOSDriverID</b> is not provided	Unique ID into all the Existing Drivers linked to this Client	-Not null or empty and also value > 0 if <b>HOSDriverID</b> is not provided -If provided must be an existing External Driver ID linked to this Client in our system

Sample JSON:

-With ExternalDriverId included

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn",
  "ExternalDriverID": 653922
}
```

-With HOSDriverId included

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn",
  "HOSDriverID": 366
}
```

Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include data of the Client's Driver requested in a JSON format. Driver data will have a specific structure (See Appendix 2, 2.2- HOSDriverDTO )

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 42,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": {
    "HOSDriverId": 2008,
    "ExternalDriverId": 13206,
    "Name": "Curtis",
    "LastName": "Rose",
    "HOSUserName": "CurtisRose",
    "HOSPassword": "",
    "IsActive": 1,
    "HOSRuleSetId": 5,
    "PersonalUse": 1,
    "YardMove": 1,
    "Exemption": 0,
    "LicenseState": "BC",
  }
}
```

```

"LicenseNumber": "3485735",
"Wifi": 1,
"DistanceUnitCode": 2,
"FuelUnitCode": 2,
"Starting24HTime": 0,
"TimeZoneCode": 2,
"AllowDriverExemptionSelection": 0,
"JurisdictionCode": 1,
"ExemptionReason": "",
"TakeDVIRPhotoEnabled" : 0
}
}

```

### 2.2.3- Add Driver

**Functionality:** Will insert a new Driver for this specific Client

**Method Call name:** /HOSDriver/v2.0/InsertHOSDriverForClient

**Type of Method:** Post

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Reseller	-Not null or empty -Must be a valid and existing Client Key in our system
<b>HOSDriver</b>	JSON	✓	This will be the Client data to insert in our system	-Not null or empty -Following rules apply for each field into the JSON:
- HOSDriverId	Integer		Will be 0 since it is a new Driver to Insert	-N/A
- ExternalDriverId	Integer	✓	Unique ID into all the Existing Drivers linked to this Client and this Reseller	-Not null or empty -Greater than 0 -Must be a unique value, not existing yet into the existing list of Drivers of this Client and this Reseller in our system
- Name	String	✓	Driver Name	-Not null or empty -String with a length between 2 and 30 characters
- LastName	String	✓	Driver LastName	-Not null or empty -String with a length between 2 and 30 characters
- HOSUserName	String	✓	HOS UserName	-Not null or empty -String with a minimum length of 4
- HOSPassword	String	✓	HOS Password	-Not null or empty
- IsActive	Integer	✓	Flag to identify if Driver is Active or not Default value 0	-Not null or empty -Value must be only 0 or 1 -Cannot be 1 if HOS Client doesn't have Activate Driver Permission
- HOSRuleSetId	Integer	✓	Code from Rule Set. (See Appendix 1, 1.5- RuleSet	-if null or empty then will have default value (0) -Must be one of the

			Codes) Default value 0	existing RulseSet Codes Ids
- PersonalUse	Integer	✓	Enable Personal Use Default value 0	-Value must be only 0 or 1 -if null or empty, will have default value (0)
- YardMove	Integer	✓	Enable Yard Move Default value 0	-Value must be only 0 or 1 -if null or empty then will have default value (0)
- Exemption	Integer	✓	Indicates On Exception mode Default value 0	-Value must be only 0 or 1 -if null or empty then will have default value (0)
- LicenseState	String	✓	2 characters long State Code of Driver License (See Appendix 1, 1.6- States Codes)	-Not null or empty -Must be one of the existing State Codes of Driver License
- LicenseNumber	String	✓	Driver License Number	-Not null or empty -String with a maximum length of 20
- Wifi	Integer		Indicates Wifi connection Allowed Default value 0	-Value must be only 0 or 1 -if null or empty then will have default value (0)
- DistanceUnitCode	Integer	✓	Code from Unit Codifier (See Appendix 1, 1.4- Units Codes)	-Value must be only 1 or 2
- FuelUnitCode	Integer	✓	Code from Unit Codifier (See Appendix 1, 1.4- Units Codes)	-Value must be only 1 or 2
- Starting24HTime	Integer	✓	Code from 24Hours Starting Time (See Appendix 1, 1.8 24 hours Period Starting Time Codes) Default value 0	-Value between 0 and 1 -if null or empty then will have default value (0)
- AllowDriverExemption Selection	Integer	✓	Indicates if Driver can change Exemption Selection from Phone Default value 0	-Value between 0 and 1 -if null or empty then will have default value (0)
- JurisdictionCode	Integer	✓	Code from Jurisdiction Codifier (See Appendix 1, 1.7- Jurisdiction Codes) Default value 3	If HOSRuleSetId is a Canada Rule (CANADA_70H or CANADA_120H) then Value must be 1 or 2 -Else if HOSRuleSetId is NOT a Canada Rule, then Value must be 3 -if null or empty will have default value (3)
- ExemptionReason	String	✓	Reason for	-if Exemption value is 1

		Required if Exemption is 1	Exemption	then it cannot be null or empty
- <b>HOSHomeBaseId</b>	Integer		Home Base Unique Identifier Default value 0	- If not null, empty or 0 then it must be a valid HomeBaseID for this specific HOSClient
- <b>TakeDVIRPhotoEnabled</b>	Integer		Flag to indicate if Driver can take photo for DVIR. Default value 1	-if not null or empty then it must be only 1 or 0.

**Sample JSON:**

```
{
  "HOSClientApiKey": "FBrDkbvlgg4Dae3EIf526Rpn",
  "HOSDriver": {
    "HOSDriverId": 0,
    "HOSUserName": "abcdefg",
    "HOSPassword": "900150983cd24fb0d6963f7d28e17f72",
    "ExternalDriverId": 1468618011,
    "Name": "test",
    "LastName": "testing",
    "IsActive": 1,
    "HOSRuleSetId": 1,
    "PersonalUse": 1,
    "YardMove": 0,
    "Exemption": 0,
    "LicenseState": "FL",
    "LicenseNumber": "12312121",
    "Wifi": 0,
    "DistanceUnitCode": 1,
    "FuelUnitCode": 1,
    "Starting24HTime": 0,
    "AllowDriverExemptionSelection": 0,
    "JurisdictionCode": 3,
    "ExemptionReason": "test",
    "HOSHomeBaseId": 3,
    "TakeDVIRPhotoEnabled" : 1
  }
}
```

**Output Parameters**

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include one Client's Driver in a JSON format. It will have a specific structure (See Appendix 2, 2.1- BasicHOSClientDTO )

**Sample JSON:**

-After an invalid input data sent:

```
{
```

```

"code": 43,
"data": null
}

```

-After a successful insertion API will send back the full data of Driver inserted:

```

{
  "code": 1,
  "data": {
    "HOSDriverId": 2176,
    "HOSUserName": "abcdefg",
    "HOSPassword": "900150983cd24fb0d6963f7d28e17f72",
    "ExternalDriverId": 1468618011,
    "HOSClientId": 124,
    "ExternalName": "test",
    "IsActive": true,
    "HOSBillingId": 0,
    "HOSRuleSetId": 1,
    "HOSRuleSet": "",
    "PersonalUse": 1,
    "YardMove": 0,
    "Exemption": 0,
    "LicenseState": "FL",
    "LicenseNumber": "12312121",
    "ExternalLastName": "Carrier test",
    "Wifi": 0,
    "ELDOperatingMode": 0,
    "DistanceUnitCode": 1,
    "FuelUnitCode": 1,
    "Starting24HTime": 0,
    "RuleSetTimestamp": "1989-12-31T00:00:00",
    "HOSHomeBaseId": 3,
    "TimeZoneCode": 2,
    "AllowDriverExemptionSelection": 0,
    "JurisdictionCode": 3,
    "ExemptionReason": "",
    "CanadaEnabled": 0,
    "TakeDVIRPhotoEnabled": 0
  }
}

```

#### 2.2.4- Update Driver

**Functionality:** Will update an existing Driver for a specific Client

**Method Call name:** /HOSDriver/v2.0/UpdateHOSDriverForClient

**Type of Method:** Post

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Reseller	-Not null or empty -Must be a valid and existing Reseller Key in our system
<b>HOSDriver</b>	JSON	✓	This will be the Client data to insert in our system	-Not null or empty -Following rules apply for each field into the JSON:
- HOSDriverId	Integer	✓	Unique ID	-Not null or empty -Greater than 0 -Must be a unique value and existing DriverID
- ExternalDriverId	Integer	✓	Unique ID into all the	-Not null or empty

			Existing Drivers linked to this Client and this Reseller	-Greater than 0 -Must be a unique value, same as previous value or not existing yet into the existing list of Drivers of this Client and this Reseller in our system
- Name	String	✓	Driver Name	-Not null or empty -String with a length between 2 and 30 characters
- LastName	String	✓	Driver LastName	-Not null or empty -String with a length between 2 and 30 characters
- HOSUserName	String	✓	HOS UserName	-Not null or empty -String with a minimum length of 4 -If previous UserName was not empty or null then need to be the same than previous value, then cannot be changed
- HOSPassword	String	✓	HOS Password	-Not null or empty
- IsActive	Integer	✓	Flag to identify if Driver is Active or not Default value 0	-Not null or empty -Value must be only 0 or 1 -Cannot be 1 if HOS Client doesn't have Activate Driver Permission
- HOSRuleSetId	Integer	✓	Code from Rule Set. (See Appendix 1, 1.5- RuleSet Codes) Default value 0	-if null or empty then will have default value (0) -Must be one of the existing RulseSet Codes Ids
- PersonalUse	Integer	✓	Enable Personal Use Default value 0	-Value must be only 0 or 1 -if null or empty, will have default value (0)
- YardMove	Integer	✓	Enable Yard Move Default value 0	-Value must be only 0 or 1 -if null or empty will have default value (0)
- Exemption	Integer	✓	Indicates On Exception mode Default value 0	-Value must be only 0 or 1 -if null or empty then will have default value (0)
- LicenseState	String	✓	2 characters long State Code of Driver License (See Appendix 1, 1.6- States Codes)	-Not null or empty -Must be one of the existing State Codes of Driver License
- LicenseNumber	String	✓	Driver License Number	-Not null or empty -String with a maximum length of 20
- Wifi	Integer		Indicates Wifi connection Allowed Default value 0	-Value must be only 0 or 1 -if null or empty then will have default value (0)
- DistanceUnitCode	Integer	✓	Code from Unit Codifier (See Appendix 1, 1.4-	-Value must be only 1 or 2

			Units Codes)	
- FuelUnitCode	Integer	✓	Code from Unit Codifier (See Appendix 1, 1.4-Units Codes)	-Value must be only 1 or 2
- Starting24HTime	Integer	✓	Code from 24Hours Starting Time (See Appendix 1, 1.8 24 hours Period Starting Time Codes) Default value 0	-Value between 0 and 1 -if null or empty then will have default value (0)
- AllowDriverExemption Selection	Integer	✓	Indicates if Driver can change Exemption Selection from Phone Default value 0	-Value between 0 and 1 -if null or empty then will have default value (0)
- JurisdictionCode	Integer	✓	Code from Jurisdiction Codifier (See Appendix 1, 1.7- Jurisdiction Codes) Default value 3	If HOSRuleSetId is a Canada Rule (CANADA_70H or CANADA_120H) then Value must be only 1 or 2 -Else if HOSRuleSetId is NOT a Canada Rule, then Value must be only 3 -if null or empty then will have default value (3)
- ExemptionReason	String	✓ It is Required if Exemption value is 1	Reason for Exemption	-if Exemption value is 1 then it cannot be null or empty
- HOSHomeBaseId	Integer		Home Base Unique Identifier Default value 0	- If not null, empty or 0 then it must be a valid HomeBaseID for this specific HOSClient
- TakeDVIRPhotoEnabled	Integer		Flag to indicate if Driver can take photo for DVIR. Default value 1	-if not null or empty then it must be only 1 or 0.

Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkvb1gg4Dae3EIf526RPn",
  "HOSDriver": {
    "HOSDriverId": 2176,
    "HOSUserName": "abcdefg",
    "HOSPassword": "900150983cd24fb0d6963f7d28e17f72",
    "ExternalDriverId": 1468618011,
    "Name": "test",
    "LastName": "testing",
    "IsActive": 1,
    "HOSRuleSetId": 1,
    "PersonalUse": 1,
    "YardMove": 0,
    "Exemption": 0,
    "LicenseState": "FL",
    "LicenseNumber": "12312121",
  }
}
```



```

        "Wifi": 0,
        "DistanceUnitCode": 1,
        "FuelUnitCode": 1,
        "Starting24HTime": 0,
        "AllowDriverExemptionSelection": 0,
        "JurisdictionCode": 3,
        "ExemptionReason": "test",
        "HOSHomeBaseId": 3,
        "TakeDVIRPhotoEnabled" : 1
    }
}

```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include same Client's Driver after update in a JSON format. It will have a specific structure (See Appendix 2, 2.2- HOSDriverDTO)

### Sample JSON:

-After an invalid input data sent:

```

{
  "code": 43,
  "data": null
}

```

-After a successful update API will send back the full data of Driver updated:

```

{
  "code": 1,
  "data": [ {
    "HOSDriverId": 2176,
    "HOSUserName": "abcdefg",
    "HOSPassword": "900150983cd24fb0d6963f7d28e17f72",
    "ExternalDriverId": 1468618011,
    "HOSClientId": 124,
    "ExternalName": "test",
    "IsActive": true,
    "HOSBillingId": 0,
    "HOSRuleSetId": 1,
    "HOSRuleSet": "",
    "PersonalUse": 1,
    "YardMove": 0,
    "Exemption": 0,
    "LicenseState": "FL",
    "LicenseNumber": "12312121",
    "ExternalLastName": "Carrier test",
    "Wifi": 0,
    "ELDOperatingMode": 0,

```

```

        "DistanceUnitCode": 1,
        "FuelUnitCode": 1,
        "Starting24HTime": 0,
        "RuleSetTimestamp": "1989-12-31T00:00:00",
        "HOSHomeBaseId": 3,
        "TimeZoneCode": 2,
        "AllowDriverExemptionSelection": 0,
        "JurisdictionCode": 3,
        "ExemptionReason": "",
        "CanadaEnabled": 0,
        "TakeDVIRPhotoEnabled" : 1
    }
}

```

## 2.3- For Assets

### 2.3.1- Get All Assets

**Method Call name:** `/HOSAsset/v2.0/GetHOSAssetsForClient`

**Functionality:** Will return the list of all Assets of this specific Client

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system

Sample JSON:

```

{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn"
}

```

#### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Client's Assets in a JSON format. Each list item will have a specific structure (See Appendix 2, 2.3- HOSAssetDTO)

Sample JSON:

-After an invalid input data sent:

```

{
  "code": 42,
  "data": null
}

```

-After a valid input data sent:

```

{
  "code": 1,
  "data": [
    {

```

```

        "AssetId": 1867,
        "HOSClientid": 13065,
        "Number": "456",
        "VIN": "1231328712",
        "Plate": "345GFRE",
        "RegistrationState": "FL",
        "Description": "example",
        "Type": 1,
        "ECMId": 1,
        "AdditionalECMId": 3,
        "Active": 1
    },
    {
        "AssetId": 1868,
        "HOSClientid": 13065,
        "Number": "456",
        "VIN": "1231328712",
        "Plate": "345GFRE",
        "RegistrationState": "FL",
        "Description": "example",
        "Type": 0,
        "ECMId": 1,
        "AdditionalECMId": 3,
        "Active": 1
    },
    {
        "AssetId": 1869,
        "HOSClientid": 13065,
        "Number": "456",
        "VIN": "1231328712",
        "Plate": "345GFRE",
        "RegistrationState": "FL",
        "Description": "example",
        "Type": 1,
        "ECMId": 1,
        "AdditionalECMId": 3,
        "Active": 0
    }
}
]
}

```

### 2.3.2- Get Asset

**Method Call name:** /HOSAsset/v2.0/GetHOSAssetForClient

**Functionality:** Will return the data of a specific Asset of this specific Client

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system

<b>HOSAssetId</b>	Integer	✓	Unique Asset ID in our system linked to this Client	-Not null or empty -Must be a valid and existing HOS Asset ID for this specific Client in our system
-------------------	---------	---	---	---

Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkbvlgg4Dae3EIf526Rpn",
  "HOSAssetID": 366
}
```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include data of the Client's Asset requested in a JSON format. Asset data will have a specific structure (See Appendix 2, 2.3- HOSAssetDTO )

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 63,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": {
    "AssetId": 366,
    "HOSClientId": 13065,
    "Number": "456",
    "VIN": "1231328712",
    "Plate": "345GFRE",
    "RegistrationState": "FL",
    "Description": "example",
    "Type": 1,
    "ECMId": 1,
    "AdditionalECMId": 3,
    "Active": 1
  }
}
```

### 2.3.3- Add Asset

**Functionality:** Will insert a new Asset for this specific Client

**Method Call name:** `/HOSAsset/v2.0/InsertHOSAssetForClient`

**Type of Method:** Post

### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must be a valid and existing Client Key in

				our system
<b>Asset</b>	JSON	✓	This will be the Asset data to insert in our system	-Not null or empty -Following rules apply for each field into the JSON:
- AssetId	Integer		Will be 0 since it is a new Asset to Insert	-N/A
- Number	Integer	✓	Asset Number	-Not null or empty -String with a length between 1 and 10 characters -Must be an unique value into the List of Assets of this Client -Must contains only alphanumeric
- VIN	String	✓	Asset VIN	-Not null or empty -For Tractor or Type=0: String with a fix length of 17 alphanumeric characters, excluding "Q", "I" and "P" -For Trailer or Type=1 : String with a length between 1 and 17 alphanumeric characters -Must be an unique value into the List of Assets of this Client
- Plate	String		Asset Plate	-if not null or empty then must be an unique value into the List of Assets of this Client
- RegistrationState	String	✓	2 characters long State Code where Asset is registered (See Appendix 1, 1.6- States Codes)	-Not null or empty -Must be one of the existing State Codes
- Description	String		Asset Description	Asset Description
- Type	Integer	✓	Type of Asset	-Value must be only 0 or 1 (Tractor or Trailer)
- ECMId	String	✓	MAC of Primary ECM device	-Not null or empty - Format (##:##:##:##:##:##). Example: 18:65:43:21:63:21
- AdditionalECMId	String		MAC of additional ECM device	-If not null or empty then Format must be: (##:##:##:##:##:##). Example: 18:65:43:21:63:21
- Active	Integer		Flag to identify if Asset is Active or not	If null or empty or 0, then will be set to 1. Inactive asset cannot be inserted
- AssetTractorPropertyDTO	JSON		This will be	-if not null or empty

			the HOS Tractor Property of the HOS Asset to insert in our system if exists	then following rules apply for each field into the JSON:
- . VIN	String	It is Required if AssetTractorPropertyDTO is not null or empty	Tractor VIN Number	-Not null or empty if AssetTractorPropertyDTO is not null or empty - String with a fixed length of 17 alphanumeric characters, excluding "Q", "I" and "P"
- . FuelTypePrimary	String	It is Required if AssetTractorPropertyDTO is not null or empty	Tractor Primary Type of Fuel	-Not null or empty if AssetTractorPropertyDTO is not null or empty - Must be a valid Fuel Type code string value (See Appendix 1, 1.19- Fuel Type Codes)
- . Make	String	It is Required if AssetTractorPropertyDTO is not null or empty	Tractor Make	-Not null or empty if AssetTractorPropertyDTO is not null or empty
- . Model	String	It is Required if AssetTractorPropertyDTO is not null or empty	Tractor Model	-Not null or empty if AssetTractorPropertyDTO is not null or empty
- . Year	Integer	It is Required if AssetTractorPropertyDTO is not null or empty	Tractor Year	-Not null or empty if AssetTractorPropertyDTO is not null or empty -Must be a valid integer value between 1970 and current year plus 1
- . Type	String	It is Required if AssetTractorPropertyDTO is not null or empty	Tractor Type	-Not null or empty if AssetTractorPropertyDTO is not null or empty
- . BodyClass	String	It is Required if AssetTractorPropertyDTO is not null or empty	Tractor Body Class	-Not null or empty if AssetTractorPropertyDTO is not null or empty
- . GVWR	String	It is Required if AssetTractorPropertyDTO is not null or empty	Tractor GVWR	-Not null or empty if AssetTractorPropertyDTO is not null or empty - Must be a valid GVWR string value (See Appendix 1, 1.20- GVWR Type Values)

Sample JSON:

-Without TractorProperty:

```
{
```

```

"HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
"Asset":
{
    "AssetId": 0,
    "Number": "456",
    "VIN": "1231328712",
    "Plate": "345GFRE",
    "RegistrationState": "FL",
    "Description": "example",
    "Type": 1,
    "ECMId": "18:65:43:21:63:21",
    "AdditionalECMId": "18:65:43:21:63:23",
    "Active": 1
}
}

```

**-With AssetTractorPropertyDTO:**

```

{
"HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
"Asset":
{
    "AssetId": 0,
    "Number": "456",
    "VIN": "1231328712",
    "Plate": "345GFRE",
    "RegistrationState": "FL",
    "Description": "example",
    "Type": 1,
    "ECMId": "18:65:43:21:63:21",
    "AdditionalECMId": "18:65:43:21:63:23",
    "Active": 1,
    "AssetTractorPropertyDTO":
    {
        "VIN": "12345678901234567",
        "FuelTypePrimary": "DIESEL",
        "Make": "Test Make",
        "Model": "Test Model",
        "Year": 2012,
        "Type": "Test Type",
        "BodyClass": "Test Body",
        "GVWR": "Class 6: 19,501 - 26,000 lb (8,846 - 11,793
kg) "
    }
}
}

```

**Output Parameters**

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well as if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include the new HOS Asset just inserted in a JSON format. It will have a specific structure (See Appendix 2, 2.3- HOSAssetDTO)

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 63,
  "data": null
}
```

-After a successful insertion API will send back the full data of Asset inserted:

```
{
  "code": 1,
  "data": {
    "AssetId": 1869,
    "HOSClientId": 13065,
    "Number": "456",
    "VIN": "1231328712",
    "Plate": "345GFRE",
    "RegistrationState": "FL",
    "Description": "example",
    "Type": 1,
    "ECMId": "18:65:43:21:63:21",
    "AdditionalECMId": "18:65:43:21:63:23",
    "Active": 1
  }
}
```

### 2.3.4- Update Asset

**Functionality:** Will update an existing Asset for this specific Client

**Method Call name:** /HOSAsset/v2.0/UpdateHOSAssetForClient

**Type of Method:** Post

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must be a valid and existing Client Key in our system
<b>Asset</b>	JSON	✓	This will be the Asset to be updated already existing for this specific Client	-Not null or empty -Following rules apply for each field into the JSON:
- AssetId	Integer	✓	Will be the ID of the existing Asset for this Client to be updated	-Not null or empty -Must be a valid and existing Asset ID for this specific Client
- Number	Integer	✓	Asset Number	-Not null or empty -String with a length between 1 and 10 characters -Must be an unique value into the List of Assets of this Client -Must contains only alphanumeric



- VIN	String	✓	Asset VIN	-Not null or empty -For Tractor or Type=0: String with a fix length of 17 alphanumeric characters, excluding "Q", "I" and "P" -For Trailer or Type=1 : String with a length between 1 and 17 alphanumeric characters -Must be an unique value into the List of Assets of this Client
- Plate	String		Asset Plate	-if not null or empty then must be an unique value into the List of Assets of this Client
- RegistrationState	String	✓	2 characters long State Code where Asset is registered (See Appendix 1, 1.6- States Codes)	-Not null or empty -Must be one of the existing State Codes
- Description	String		Asset Description	Asset Description
- Type	Integer	✓	Type of Asset	-Value must be only 1 or 2 (Tractor or Trailer)
- ECMId	String	✓	MAC of Primary ECM device	-Not null or empty - Format (##:##:##:##:##:##). Example: 18:65:43:21:63:21
- AdditionalECMId	String		MAC of additional ECM device	-If not null or empty then Format must be: (##:##:##:##:##:##). Example: 18:65:43:21:63:22
- Active	Integer		Flag to identify if Asset is Active or not	If not null or empty the value must be only 0 or 1. Default value is 0
- AssetTractorPropertyDTO	JSON		This will be the HOS Tractor Property of the HOS Asset to insert in our system if exists	-if not null or empty then following rules apply for each field into the JSON:
- . VIN	String	It is Required if AssetTractorPropertyDTO is not null or empty	Tractor VIN Number	-Not null or empty if if AssetTractorPropertyDTO is not null or empty - String with a fix length of 17 alphanumeric characters, excluding "Q", "I" and "P"
- . FuelTypePrimary	String	It is Required	Tractor	-Not null or empty if if

		if AssetTractorPropertyDTO is not null or empty	Primary Type of Fuel	AssetTractorPropertyDTO is not null or empty - Must be a valid Fuel Type code string value (See Appendix 1, 1.19- Fuel Type Codes)
- . Make	String	It is Required if AssetTractorPropertyDTO is not null or empty	Tractor Make	-Not null or empty if AssetTractorPropertyDTO is not null or empty
- . Model	String	It is Required if AssetTractorPropertyDTO is not null or empty	Tractor Model	-Not null or empty if AssetTractorPropertyDTO is not null or empty
- . Year	Integer	It is Required if AssetTractorPropertyDTO is not null or empty	Tractor Year	-Not null or empty if AssetTractorPropertyDTO is not null or empty -Must be a valid integer value between 1970 and current year plus 1
- . Type	String	It is Required if AssetTractorPropertyDTO is not null or empty	Tractor Type	-Not null or empty if AssetTractorPropertyDTO is not null or empty
- . BodyClass	String	It is Required if AssetTractorPropertyDTO is not null or empty	Tractor Body Class	-Not null or empty if AssetTractorPropertyDTO is not null or empty
- . GVWR	String	It is Required if AssetTractorPropertyDTO is not null or empty	Tractor GVWR	-Not null or empty if AssetTractorPropertyDTO is not null or empty - Must be a valid GVWR string value (See Appendix 1, 1.20- GVWR Type Values)

Sample JSON:

-Without AssetTractorPropertyDTO included:

```
{
  "HOSClientApiKey": "FBrDkblgg4Dae3EIf526RPn",
  "Asset": {
    "AssetId": 1869,
    "Number": "456",
    "VIN": "1231328712",
    "Plate": "345GFR",
    "RegistrationState": "FL",
    "Description": "update example",
    "Type": 1,
    "ECMId": "18:65:43:21:63:21",
    "AdditionalECMId": "18:65:43:21:63:23",
    "Active": 1
  }
}
```

```

    }
}

```

-With AssetTractorPropertyDTO included:

```

{
  "HOSClientApiKey": "FBrDkvb1gg4Dae3EIf526RPn",
  "Asset": {
    "AssetId": 1869,
    "Number": "456",
    "VIN": "1231328712",
    "Plate": "345GFR",
    "RegistrationState": "FL",
    "Description": "update example",
    "Type": 1,
    "ECMId": "18:65:43:21:63:21",
    "AdditionalECMId": "18:65:43:21:63:23",
    "Active": 1,
    "AssetTractorPropertyDTO": {
      "VIN": "12345678901234567",
      "FuelTypePrimary": "DIESEL",
      "Make": "Test Make",
      "Model": "Test Model",
      "Year": 2012,
      "Type": "Test Type",
      "BodyClass": "Test Body",
      "GVWR": "Class 6: 19,501 - 26,000 lb (8,846 - 11,793
kg) "
    }
  }
}

```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include the HOS Asset just updated in a JSON format. It will have a specific structure (See Appendix 2, 2.3- HOSAssetDTO )

Sample JSON:

-After an invalid input data sent:

```

{
  "code": 63,
  "data": null
}

```

-After a successful update API will send back the full data of Asset updated:

```

{
  "code": 1,
  "data": {
    "AssetId": 1869,
    "HOSClientId": 13065,
    "Number": "456",
    "VIN": "1231328712",
    "Plate": "345GFR",
    "RegistrationState": "FL",
    "Description": "update example",
    "Type": 1,
    "ECMId": "18:65:43:21:63:21",
    "AdditionalECMId": "18:65:43:21:63:23",
    "Active": 1
  }
}

```

## 2.4- For Home Bases

### 2.4.1- Get All Home Bases

**Method Call name:** /HOSHHomeBase/v2.0/GetHOSHHomeBasesForClient

**Functionality:** Will return the list of all Home Bases of this specific Client

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
HOSClientApiKey	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system

#### Sample JSON:

```

{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn"
}

```

#### Output Parameters

Field	Type	Description
code	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
data	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Client's Home Bases in a JSON format. Each list item will have a specific structure (See Appendix 2, 2.4- HOSHHomeBasedTO)

#### Sample JSON:

-After an invalid input data sent:

```

{
  "code": 63,
  "data": null
}

```

-After a valid input data sent:

```

{

```

```

"code": 1,
"data": [
  {
    "HOSHomeBaseId": 205,
    "HOSClientId": 125,
    "Name": "Main Office",
    "Address": "1190 51 Street NE, Salmon Arm",
    "Latitude": 50.709,
    "Longitude": -119.227,
    "DefaultHome": 1,
    "TimeZoneCode": 3
  },
  {
    "HOSHomeBaseId": 206,
    "HOSClientId": 125,
    "Name": "OK Falls",
    "Address": "1716 Wallace Rd, OK Falls",
    "Latitude": 49.345051876346,
    "Longitude": -119.571492925931,
    "DefaultHome": 0,
    "TimeZoneCode": 3
  }
]
}

```

#### 2.4.2- Get Home Base

**Method Call name:** /HOSHomeBase/v2.0/GetHOSHomeBaseForClient

**Functionality:** Will return the data of a specific Home Base of this specific Client

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSHomeBaseId</b>	Integer	✓	Unique Home Base ID in our system linked to this Client	-Not null or empty -Must be a valid and existing HOS Home Base ID for this specific Client in our system

#### Sample JSON:

```

{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RpN",
  "HOSHomeBaseId": 205
}

```

#### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1

		-Will include the data of the specific Client's Home Base requested in a JSON format. It will have a specific structure (See Appendix 2, 2.4- HOSHHomeBaseDTO)
--	--	--

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 63,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data":
    {
      "HOSHHomeBaseId": 205,
      "HOSClientId": 125,
      "Name": "Main Office",
      "Address": "1190 51 Street NE, Salmon Arm",
      "Latitude": 50.709,
      "Longitude": -119.227,
      "DefaultHome": 1,
      "TimeZoneCode": 3
    }
}
```

### 2.4.3-Add Home Base

**Functionality:** Will insert a new Home Base for this specific Client

**Method Call name:** /HOSHHomeBase/v2.0/InsertHOSHHomeBaseForClient

**Type of Method:** Post

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must be a valid and existing Client Key in our system
<b>HomeBase</b>	JSON	✓	This will be the Home Base data to insert in our system	-Not null or empty -Following rules apply for each field into the JSON:
- HOSHHomeBaseId	Integer		Will be 0 since it is a new Home Base to Insert	-N/A
- Name	String	✓	Home Base Name	-Not null or empty
- Address	String	✓	Home Base Address	-Not null or empty
- Latitude	Double	✓	Home Base Latitude	-Must be a numeric value between -90 and 90
- Longitude	Double	✓	Home Base Longitude	-Must be a numeric value between -180 and 180
- TimeZoneCode	Integer	✓	Code from Time	-Not null or empty

			Zone Codifier (See Appendix 1, 1.2- Time Zone Codes)	-Value between 0 and 7 -Default value 0
- DefaultHome	Integer		Flag to identify if this is the Default Home Base for this Client. Only one Home Base into Home Base List of this Client can be the default Home Base (set to 1)	-Value must be only 0 or 1 . Default value is 0

### Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkblgg4Dae3EIf526Rpn",
  "HomeBase": {
    "Name": "New FL Office",
    "Address": "1190 51 Street NE, Salmon Arm",
    "Latitude": 50.709,
    "Longitude": -119.227,
    "DefaultHome": 1,
    "TimeZoneCode": 3
  }
}
```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well as if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include the new HOS HomeBase just inserted in a JSON format. It will have a specific structure (See Appendix 2, 2.4- HOSHomeBaseDTO )

### Sample JSON:

-After an invalid input data sent:

```
{
  "code": 63,
  "data": null
}
```

-After a successful insertion API will send back the full data of Asset inserted:

```
{
  "code": 1,
  "data": {
    "HOSHomeBaseId": 222,
    "HOSClientId": 125,
    "Name": "New FL Office",
    "Address": "1190 51 Street NE, Salmon Arm",
```

```

        "Latitude": 50.709,
        "Longitude": -119.227,
        "DefaultHome": 1,
        "TimeZoneCode": 3
    }
}

```

#### 2.4.4- Update Home Base

**Functionality:** Will update an existing Home Base for this specific Client

**Method Call name:** /HOSHomeBase/v2.0/UpdateHOSHomeBaseForClient

**Type of Method:** Post

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must be a valid and existing Client Key in our system
<b>HomeBase</b>	JSON	✓	This will be the Home Base data to insert in our system	-Not null or empty -Following rules apply for each field into the JSON:
- HOSHomeBaseId	Integer	✓	This will be the Id of the Home Base to update	-Not null or empty -Must be a valid and existing Home Base Id in our system
- Name	String	✓	Home Base Name	-Not null or empty
- Address	String	✓	Home Base Address	-Not null or empty
- Latitude	Double	✓	Home Base Latitude	-Must be a numeric value between -90 and 90
- Longitude	Double	✓	Home Base Longitude	-Must be a numeric value between -180 and 180
- TimeZoneCode	Integer	✓	Code from Time Zone Codifier (See Appendix 1, 1.2- Time Zone Codes)	-Not null or empty -Value between 0 and 7 -Default value 0
- DefaultHome	Integer		Flag to identify if this is the Default Home Base for this Client. Only one Home Base into Home Base List of this Client can be the default Home Base (set to 1)	-Value must be only 0 or 1 Default value is 0

#### Sample JSON:

```

{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HomeBase": {
    "HOSHomeBaseId": 222,
    "Name": "New FL Office",
    "Address": "New address",

```



```

        "Latitude": 50.709,
        "Longitude": -119.227,
        "DefaultHome": 1,
        "TimeZoneCode": 3
    }
}

```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well as if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include the HOS HomeBsae just updated in a JSON format. It will have a specific structure (See Appendix 2, 2.4- HOSHomeBbaseDTO )

### Sample JSON:

-After an invalid input data sent:

```

{
  "code": 63,
  "data": null
}

```

-After a successful update API will send back the full data of Asset updated:

```

{
  "code": 1,
  "data": {
    "HOSHomeBaseId": 222,
    "HOSClientId": 125,
    "Name": "New FL Office",
    "Address": "New Address",
    "Latitude": 50.709,
    "Longitude": -119.227,
    "DefaultHome": 1,
    "TimeZoneCode": 3
  }
}

```

### 2.4.5- Delete Home Base

**Method Call name:** /HOSHomeBase/v2.0/DeleteHOSHomeBaseForClient

**Functionality:** Will delete an specific Home Base of this specific Client

**Type of Method:** Post

### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSHomeBaseId</b>	Integer	✓	Unique Home Base ID in our system linked to this Client	-Not null or empty -Must be a valid and existing HOS Home

				Base ID for this specific Client in our system - In order to be deleted successfully this Home Base must not have any Drivers linked to it
--	--	--	--	---

Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSHomeBaseId": 205
}
```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null always

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 67,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": null
}
```

### 2.4.6- Assign/Unassign Drivers to HomeBase

**Method Call name:** /HOSDriver/v2.0/DriverAssignmentToHomeBase

**Functionality:** Will assign/unassign Home Base to specific Driver List of this specific Client

**Type of Method:** Post

### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSHomeBaseId</b>	Integer	✓	Unique Home Base ID in our system linked to this Client	-if null or empty then Default Value 0 will be used -It can be 0 if want to unassign the current HomeBase to the Drivers. -Or must be a valid and existing HOS Home Base ID for this specific Client in our system

<b>HOSDriverIds</b>	List Of Integer	✓	List of HOSDriverID linked to this Client	-Not null or empty -Must be a List of valid and existing HOS Driver IDs for this specific Client in our system
---------------------	-----------------	---	---	---

Sample JSON:

- To Assign a HomeBase

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSHomeBaseId": 205,
  "HOSDriverIds": [12, 134]
}
```

- To Unassign current HomeBase

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSHomeBaseId": 0,
  "HOSDriverIds": [125]
}
```

Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return a List of updated Drivers in a JSON format. It will have a specific structure (See Appendix 2, 2.2- HOSDriverDTO)

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 137,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": [
    {
      "HOSDriverId": 12,
      "ExternalDriverId": 1336,
      "Name": "newDriver",
      "LastName": "newDriverlastname",
      "HOSUserName": "newDriver",
      "HOSClientId": 38,
      "IsActive": 1,
      "HasPassword": 1,
      "HOSRuleSetId": 1,
      "PersonalUse": 1,
      "YardMove": 1,
      "Exemption": 1,
      "LicenseState": "FL",
      "LicenseNumber": "120992121",
      "ExternalName": ""
    }
  ]
}
```

```

        "Wifi": 0,
        "ELDOperatingMode": 0,
        "DistanceUnitCode": 1,
        "FuelUnitCode": 1,
        "Starting24HTime": 0,
        "RuleSetTimestamp": 0,
        "HOSHomeBaseId": 33,
        "TimeZoneCode": 1,
        "AllowDriverExemptionSelection": 1,
        "JurisdictionCode": 3,
        "ExemptionReason": "2 tests 2"
    }
}
]
}

```

## 2.5- For Shipments

### 2.5.1- Get All Shipments for one or all Drivers By Client and DateTime range

**Method Call name:** /HOSShipment/v2.0/GetHOSShipmentsForClient

**Functionality:** Will return the list of all Shipments of one specific or all Drivers of this specific Client for a Date-Time Range

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSDriverId</b>	Integer		Unique Id that identifies the Driver	-if not null or empty or -1 then it must be a valid and existing Driver Id related with this Client
<b>FromDate</b>	Long	✓	Start Date and Time Epoch value for the Search of Shipments	-Must be a valid Date and Time format -Must be in Epoch (GMT) format -Must be a value lower than EndDate value
<b>EndDate</b>	Long	✓	End Date and Time Epoch value for the Search of Shipments	-Must be a valid Date and Time format -Must be in Epoch (GMT) format -Must be a value greater than FromDate value

#### Sample JSON:

- For All Drivers:

```

{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RpN",
  "FromDate": 1634156520,
  "EndDate": 1642436596
}

```

- For one Driver:

```

{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RpN",
  "HOSDriverId": 105,
  "FromDate": 1634156520,
  "EndDate": 1642436596
}

```

## Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Driver's Shipments for one or all Drivers of this specific Client and for this specific Date-Time range in a JSON format. Each list item will have a specific structure (See Appendix 2, 2.5- BasicHOSShipmentDTO)

### Sample JSON:

-After an invalid input data sent:

```
{
  "code": 63,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": [
    {
      "HOSClientId": 7,
      "CarrierName": "Carrier Test",
      "CarrierAddress": "11111 NE 11st Doral 33150",
      "TractorNumber": "110",
      "TractorVin": "-ABCDEFG15P4567890",
      "LastKnownLocation": "",
      "HOSDriverId": 18,
      "DriverName": "Deep Jonny",
      "CoDriverName": "",
      "HOSShipmentId": 30,
      "StartTimeStamp": 1634156520,
      "EndTimeStamp": 1634242920,
      "ShipperName": "awawr",
      "ShipmentNumber": "asdasd",
      "Commodity": "asdasdnvjhvjhv",
      "Description": "",
      "LastModified": 1642436596,
      "PickupTimeStamp": 0,
      "PickupEmail": "",
      "PickupBay": "",
      "PickupParking": "",
      "PickupNotes": "",
      "DeliveryTimeStamp": 0,
      "DeliveryBay": "",
      "DeliveryEmail": "",
      "DeliveryParking": "",
      "DeliveryNotes": ""
    },
  ]
}
```

```

"HOSClientId": 7,
"CarrierName": "Carrier Test",
"CarrierAddress": "11111 NE 11st Doral 33150",
"TractorNumber": "110",
"TractorVin": "-ABCDEFG15P4567890",
"LastKnownLocation": "",
"HOSDriverId": 377,
"DriverName": "Canada Canada 120",
"CoDriverName": "",
"HOSShipmentId": 33,
"StartTimeStamp": 1634357783,
"EndTimeStamp": 1634361383,
"ShipperName": "Shipment",
"ShipmentNumber": "102821",
"Commodity": "teste",
"Description": "teste",
"LastModified": 1635442954,
"PickupTimeStamp": 0,
"PickupEmail": "",
"PickupBay": "",
"PickupParking": "",
"PickupNotes": "",
"DeliveryTimeStamp": 0,
"DeliveryBay": "",
"DeliveryEmail": "",
"DeliveryParking": "",
"DeliveryNotes": ""
}
]
}

```

### 2.5.2- Get Shipment for Driver By Client

**Method Call name:** /HOSShipment/v2.0/GetHOSShipmentForClient

**Functionality:** Will return the data of a specific Shipment of this specific Client

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSDriverId</b>	Integer	✓	Unique Id that identifies the Driver	-Not null or empty -Must be a valid and existing Driver Id related with this Client
<b>HOSShipmentId</b>	Integer	✓	Unique Id that identifies the Shipment	-Not null or empty -Must be a valid and existing Shipment Id related with this Driver and Client

- Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn",
  "HOSDriverId": 18,
  "HOSShipmentId": 30
}
```

Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include the data of the specific Driver's Shipment of this Client requested in a JSON format. It will have a specific structure (See Appendix 2, 2.5- BasicHOSShipmentDTO)

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 73,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": {
    "HOSClientId": 7,
    "CarrierName": "Carrier Test",
    "CarrierAddress": "11111 NE 11st Doral 33150",
    "TractorNumber": "110",
    "TractorVin": "-ABCDEFG15P4567890",
    "LastKnownLocation": "",
    "HOSDriverId": 18,
    "DriverName": "Deep Jonny",
    "CoDriverName": "",
    "HOSShipmentId": 30,
    "StartTimeStamp": 1634156520,
    "EndTimeStamp": 1634242920,
    "ShipperName": "awawr",
    "ShipmentNumber": "asdasd",
    "Commodity": "asdasdnvjhvjhvjhv",
    "Description": "",
    "LastModified": 1642436596,
    "PickupTimeStamp": 0,
    "PickupEmail": "",
    "PickupBay": "",
    "PickupParking": "",
    "PickupNotes": "",
    "DeliveryTimeStamp": 0,
    "DeliveryBay": "",
    "DeliveryEmail": ""
  }
}
```

```

    "DeliveryParking": "",
    "DeliveryNotes": ""
  }
}

```

### 2.5.3-Add Shipment

**Functionality:** Will insert a new Shipment for a Driver and for this specific Client

**Method Call name:** /HOSShipment/v2.0/InsertHOSShipmentForClient

**Type of Method:** Post

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must be a valid and existing Client Key in our system
<b>HOSShipment</b>	JSON	✓	This will be the Shipment data to insert in our system	-Not null or empty -Following rules apply for each field into the JSON:
- HOSDriverId	Integer	✓	Unique Id that identifies the Driver	-Not null or empty -Must be a valid and existing Driver Id related with this Client
- StartTimeStamp	Long	✓	Start Date and Time	-Must be a valid Date and Time and must be in Epoch (GMT) format -Must be a value lower than EndTimeStamp value - Cannot be lower than 180 days ago from Now
- EndTimeStamp	Long	✓	End Date and Time	-Must be a valid Date and Time and must be in Epoch (GMT) format -Must be a value greater than StartTimeStamp value
- ShipperName	String		Shipper Name	-Must be provided if Shipment Number is not provided
- ShipmentNumber	String		Shipment Number	-Must be provided if Shipment Name and Commodity are not provided - Only alphanumeric characters
- Commodity	String		Commodity	-Must be provided if Shipment Number is not provided
- Description	String		Description or Comments of this Shipment	
- PickupTimestamp	Long		Pickup Date and Time	- It can be a null or nothing or 0. -if value provided then must be a valid Date and Time and must be in Epoch (GMT) format



				-if value provided then must be a value lower than DeliveryTimeStamp value - if value provided then must be a value greater than or equal to StartTimeStamp value
- PickupEmail	String		Pickup email	-if provided then must have a valid email format
- PickupBay	String		Pickup Bay	
- PickupParking	String		Pickup Parking	
- PickupNotes	String		Pickup Notes	
- DeliveryTimestamp	Long		Delivery Date and Time.	- It can be a null or nothing or 0. -if value provided then must be a valid Date and Time and must be in Epoch (GMT) format - if value provided then must be a value greater than PickupTimeStamp value - if value provided then must be a value lower than or equal to EndTimeStamp value
- DeliveryBay	String		Delivery Bay	
- DeliveryEmail	String		Delivery Email	-if provided then must have a valid email format
- DeliveryParking	String		Delivery Parking	
- DeliveryNotes	String		Delivery Notes	

Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkbvlgg4Dae3EIf526RPn",
  "HOSShipment":
    {
      "HOSDriverId": 18,
      "StartTimeStamp": 1634156520,
      "EndTimeStamp": 1634242920,
      "ShipperName": "awawr",
      "ShipmentNumber": "asdasd",
      "Commodity": "asdasdnvjhvjhv",
      "Description": "",
      "PickupTimestamp": 0,
      "PickupEmail": "",
      "PickupBay": "",
      "PickupParking": "",
      "PickupNotes": "",
      "DeliveryTimestamp": 0,
      "DeliveryBay": "",
      "DeliveryEmail": "",
    }
}
```

```

        "DeliveryParking": "",
        "DeliveryNotes": ""
    }
}

```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include the new HOS Shipment just inserted in a JSON format. It will have a specific structure (See Appendix 2, 2.5- BasicHOSShipmentDTO)

### Sample JSON:

-After an invalid input data sent:

```

{
  "code": 73,
  "data": null
}

```

-After a successful insertion API will send back the full data of Shipment inserted:

```

{
  "code": 1,
  "data": {
    "HOSClientId": 7,
    "CarrierName": "Carrier Test",
    "CarrierAddress": "11111 NE 11st Doral 33150",
    "TractorNumber": "110",
    "TractorVin": "-ABCDEFG15P4567890",
    "LastKnownLocation": "",
    "HOSDriverId": 18,
    "DriverName": "Deep Jonny",
    "CoDriverName": "",
    "HOSShipmentId": 30,
    "StartTimeStamp": 1634156520,
    "EndTimeStamp": 1634242920,
    "ShipperName": "awawr",
    "ShipmentNumber": "asdasd",
    "Commodity": "asdasdnvjhvjhv",
    "Description": "",
    "LastModified": 1642436596,
    "PickupTimeStamp": 0,
    "PickupEmail": "",
    "PickupBay": "",
    "PickupParking": "",
    "PickupNotes": "",
    "DeliveryTimeStamp": 0,
    "DeliveryBay": "",
    "DeliveryEmail": "",
    "DeliveryParking": ""
  }
}

```

```

        "DeliveryNotes": ""
    }
}

```

#### 2.5.4- Update Shipment

**Functionality:** Will update an existing Shipment for a Driver of this specific Client

**Method Call name:** /HOSShipment/v2.0/UpdateHOSShipmentForClient

**Type of Method:** Post

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must be a valid and existing Client Key in our system
<b>HOSShipment</b>	JSON	✓	This will be the Shipment data to insert in our system	-Not null or empty -Following rules apply for each field into the JSON:
- HOSShipmentId	Integer	✓	Unique Id that identifies this Shipment	-Not null or empty -Must be a valid and existing Shipment Id in our system related with the Driver provided
- HOSDriverId	Integer	✓	Unique Id that identifies the Driver	-Not null or empty -Must be a valid and existing Driver Id related with this Client
- StartTimeStamp	Long	✓	Start Date and Time	-Must be a valid Date and Time and must be in Epoch (GMT) format -Must be a value lower than EndTimeStamp value -Cannot be lower than 180 days ago from Now
- EndTimeStamp	Long	✓	End Date and Time	-Must be a valid Date and Time and must be in Epoch (GMT) format -Must be a value greater than StartTimeStamp value
- LastModified	Long	✓	Last Modification Date and Time	-Must be a valid Date and Time -Must be in Epoch (GMT) format -Must be the same than value saved on the system in order to be updated. If doesn't, then data need to be updated first and the change need to be resend
- ShipperName	String		Shipper Name	-Must be provided if Shipment Number is not provided
- ShipmentNumber	String		Shipment Number	-Must be provided if Shipment Name and

				Commodity are not provided - Only alphanumeric characters
- Commodity	String		Commodity	-Must be provided if Shipment Number is not provided
- Description	String		Description or Comments of this Shipment	
- PickupTimestamp	Long		Pickup Date and Time	- It can be a null or nothing or 0. -if value provided then must be a valid Date and Time and must be in Epoch (GMT) format -if value provided then must be a value lower than DeliveryTimeStamp value - if value provided then must be a value greater than or equal to StartTimeStamp value
- PickupEmail	String		Pickup email	-if provided then must have a valid email format
- PickupBay	String		Pickup Bay	
- PickupParking	String		Pickup Parking	
- PickupNotes	String		Pickup Notes	
- DeliveryTimestamp	Long		Delivery Date and Time	- It can be a null or nothing or 0. -if value provided then must be a valid Date and Time and must be in Epoch (GMT) format - if value provided then must be a value greater than PickupTimeStamp value - if value provided then must be a value lower than or equal to EndTimeStamp value
- DeliveryBay	String		Delivery Bay	
- DeliveryEmail	String		Delivery Email	-if provided then must have a valid email format
- DeliveryParking	String		Delivery Parking	
- DeliveryNotes	String		Delivery Notes	

### Sample JSON:

```
{
  "HOSClientApiKey": "FBrdkbv1gg4Dae3EIf526RPn",
  "HOSShipment": {
    "HOSDriverId": 18,
    "HOSShipmentId": 30,
  }
}
```

```

        "StartTimeStamp": 1634156520,
        "EndTimeStamp": 1634242920,
        "LastModified": 1635242921,
        "ShipperName": "awawr updated",
        "ShipmentNumber": "asdasd",
        "Commodity": "asdasdnvjhvjhvjhv",
        "Description": "",
        "PickupTimestamp": 0,
        "PickupEmail": "",
        "PickupBay": "",
        "PickupParking": "",
        "PickupNotes": "",
        "DeliveryTimestamp": 0,
        "DeliveryBay": "",
        "DeliveryEmail": "",
        "DeliveryParking": "",
        "DeliveryNotes": ""
    }
}

```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include the HOS Shipment just updated in a JSON format. It will have a specific structure (See Appendix 2, 2.5- BasicHOSShipmentDTO )

### Sample JSON:

-After an invalid input data sent:

```

{
  "code": 82,
  "data": null
}

```

-After a successful update API will send back the full data of Asset updated:

```

{
  "code": 1,
  "data": {
    "HOSClientId": 7,
    "CarrierName": "Carrier Test",
    "CarrierAddress": "11111 NE 11st Doral 33150",
    "TractorNumber": "110",
    "TractorVin": "-ABCDEFG15P4567890",
    "LastKnownLocation": "",
    "HOSDriverId": 18,
    "DriverName": "Deep Jonny",
    "CoDriverName": "",
    "HOSShipmentId": 30,
    "StartTimeStamp": 1634156520,

```

```

        "EndTimeStamp": 1634242920,
        "ShipperName": "awawr",
        "ShipmentNumber": "asdasd",
        "Commodity": "asdasdnvjhvjhvjhv",
        "Description": "",
        "LastModified": 1642436596,
        "PickupTimeStamp": 0,
        "PickupEmail": "",
        "PickupBay": "",
        "PickupParking": "",
        "PickupNotes": "",
        "DeliveryTimeStamp": 0,
        "DeliveryBay": "",
        "DeliveryEmail": "",
        "DeliveryParking": "",
        "DeliveryNotes": ""
    }
}

```

### 2.5.5- Delete Shipment

**Method Call name:** /HOSShipment/v2.0/DeleteHOSShipmentForClient

**Functionality:** Will delete an specific Home Base of this specific Client

**Type of Method:** Post

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSDriverId</b>	Integer	✓	Unique Id that identifies the Driver	-Not null or empty -Must be a valid and existing Driver Id related with this Client
<b>HOSShipmentId</b>	Integer	✓	Unique Id that identifies the Shipment to be Deleted	-Not null or empty -Must be a valid and existing Shipment Id related with this Driver and Client

- Sample JSON:

```

{
  "HOSClientApiKey": "FBrDkvb1gg4Dae3EIf526RPn",
  "HOSDriverId": 18,
  "HOSShipmentId": 30
}

```

#### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null always

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 73,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": null
}
```

## 2.6- For LogBook

### 2.6.1- For USA

#### 2.6.1.1- Get USA LogBook For Driver By Client

**Method Call name:** /HOSLogBook/v2.0/GetUSALogBookForClient

**Functionality:** Will return the Logs of one specific Driver of this specific Client from an specific Date Time

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSDriverId</b>	Integer		Unique Id that identifies the Driver	-if not null or empty or -1 then it must be a valid and existing Driver Id related with this Client
<b>FromDate</b>	Long	✓	Date and Time Epoch value for the Search of LogBook	-Must be a valid Date and Time -Must be in Epoch (GMT) format

Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSDriverId": 108,
  "FromDate": 1634156520
}
```

#### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include the Driver's LogBook for the specified Driver of this specific Client starting from the specific Date-Time in a JSON format. It will have a specific structure (See Appendix 2, 2.6- HOSReportVO)

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 7,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data":
  {
    "RecordDate": "01-Jan-21",
    "DotNumber": "11111111",
    "CarrierName": "Carrier Test",
    "CarrierAddress": "11111 NE 11st Doral 33150",
    "HomeBaseAddress": "8230 coral way Miami FL 33156",
    "TimeZoneId": 0,
    "DriverName": "Ruano Espantoso",
    "DriverUserName": "er22tst",
    "DriverLicense": "EFGH9876",
    "DriverLicenseState": "FL",
    "RuleSetId": 5,
    "CoDriverName": "",
    "CoDriverUserName": "",
    "TractorNumber": "",
    "TractorVIN": "",
    "TractorPlate": "",
    "TrailerNumber": "",
    "TrailerPlate": "",
    "ShippingId": "",
    "StartOdometer": 0,
    "EndOdometer": 0,
    "DistanceTraveled": 0,
    "DistanceUnit": "Miles",
    "DistanceUnitCode": 1,
    "MalFunctions": 0,
    "UnidentifiedEvents": 0,
    "DrivingAmount": 0.0,
    "OnDutyAmount": 0.0,
    "OffDutyAmount": 86399.0,
    "SleeperBerthAmount": 0.0,
    "Points": [
      {
        "HOSEventId": 0,
        "EpochTimestamp": 1609477200,
        "Timestamp": "2021-01-01T05:00:00Z",
        "HourOfDay": 0,
        "OriginalDutyStatus": "OFF",
        "Status": 3,
        "EventOrigin": -1,
        "HOSDriverName": "",
        "HOSUserName": ""
      }
    ]
  }
}
```



```

        "HOSCoDriverName": "",
        "HOSCoUserName": "",
        "TractorNumber": "",
        "TrailerNumber": "",
        "TractorVIN": "",
        "Odometer": 0,
        "DrivenMiles": 0.0,
        "EventDuration": "00:00:00",
        "Location": "",
        "EpochVerifiedTimestamp": 0,
        "PointType": 0,
        "Remark": "",
        "ViolationText": ""
    },
    {
        "HOSEventId": 0,
        "EpochTimestamp": 1609563599,
        "Timestamp": "2021-01-02T04:59:59Z",
        "HourOfDay": 86399,
        "OriginalDutyStatus": "OFF",
        "Status": 3,
        "EventOrigin": -1,
        "HOSDriverName": "",
        "HOSUserName": "",
        "HOSCoDriverName": "",
        "HOSCoUserName": "",
        "TractorNumber": "",
        "TrailerNumber": "",
        "TractorVIN": "",
        "Odometer": 0,
        "DrivenMiles": 0.0,
        "EventDuration": "00:00:00",
        "Location": "",
        "EpochVerifiedTimestamp": 0,
        "PointType": 0,
        "Remark": "",
        "ViolationText": ""
    }
    ],
    "PreviousEvent": null,
    "NextEvent": null
}
}

```

### 2.6.1.2- Get USA Print Display Logs For Driver By Client

**Method Call name:** /HOSLogBook/v2.0/GetUSAPrintDisplayLogsForClient

**Functionality:** Will return Print Display Logs file of one specific Driver of this specific Client from an specific Date Time range

**Type of Method:** Get

## Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSDriverId</b>	Integer		Unique Id that identifies the Driver	-if not null or empty or -1 then it must be a valid and existing Driver Id related with this Client
<b>FromDate</b>	Long	✓	Start Date and Time Epoch value for the Search of LogBook	-Must be a valid Date and Time -Must be in Epoch (GMT) format
<b>EndDate</b>	Long	✓	End Date and Time Epoch value for the Search of LogBook	-Must be a valid Date and Time -Must be in Epoch (GMT) format

### Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSDriverId": 108,
  "FromDate": 1634156520,
  "EndDate": 1634556923,
}
```

## Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include the Driver's Print Display Logs Data File in PDF format for the specified Driver of this specific Client starting from the specific Date-Time range in a JSON format. It will have a specific structure (See Appendix 2, 2.8- ExportFileDTO)

### Sample JSON:

-After an invalid input data sent:

```
{
  "code": 7,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": {
    "FileName": "Deep_9343012522-000000000.pdf",
    "File": (Array Of Bytes)
  }
}
```

### 2.6.1.3- Get USA ELD Data File For Driver By Client

**Method Call name:** /HOSLogBook/v2.0/GetUSAELDDataFileForClient

**Functionality:** Will return the ELD Data Report file of one specific Driver of this specific Client from an specific Date Time range

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSDriverId</b>	Integer		Unique Id that identifies the Driver	-if not null or empty or -1 then it must be a valid and existing Driver Id related with this Client
<b>FromDate</b>	Long	✓	Start Date and Time Epoch value for the Search of LogBook	-Must be a valid Date and Time -Must be in Epoch (GMT) format
<b>EndDate</b>	Long	✓	End Date and Time Epoch value for the Search of LogBook	-Must be a valid Date and Time -Must be in Epoch (GMT) format
<b>Action</b>	Integer	✓	Action to execute: To download (1) or to send to FMCSA (2)	-Must be only 1 or 2 Default value 1.
<b>Comments</b>	String	✓	Comments to add to the report	
<b>FMCSAExportTest</b>	Integer	✓	Flag to indicate if export or not to FMCSA	-Must be only 1 or 0 (true or false). Will return a response from FMCSA and a list of errors if there is any error on the FMCSA export process Default value 1.

#### Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSDriverId": 108,
  "FromDate": 1634156520,
  "EndDate": 1634556923,
  "Action": 2,
  "Comments": "testing",
  "FMCSAExportTest": 1
}
```

#### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include the Driver's Report Data File in CSV format for the specified Driver of this specific Client starting from the specific Date-Time range in a JSON format. It will have a specific structure

## Sample JSON:

-After an invalid input data sent:

```
{
  "code": 7,
  "data": null
}
```

-After a valid input data sent but with errors of FMCSA into the response:

```
{
  "code": 5,
  "data": {
    "FileName": "Deep_9343012522-000000000.csv",
    "File": (Array Of Bytes),
    "FMCSAResponse": {
      "HOSDriverId": 0,
      "DriverName": "",
      "HOSUserName": null,
      "Timestamp": 1643994561,
      "Status": "Error",
      "SubmissionId": "32d4ce6c-6bd1-4fd9-8fbd-32c57d8efe3b",
      "ErrorCount": 5,
      "Broadcast": "As of June 26th 2021 security settings on all FMCSA servers reflect required changes to meet cybersecurity requirements. Please ensure your ELD devices are configured so they can transfer ELD data to the web service using these new security settings: https://eld.fmcsa.dot.gov/Post/Item/eld_webservice_settings",
      "Errors": [
        {
          "Detail": "<p>The VIN - ABCDEFG15P4567890 does not have a valid check-digit. See 49 C.F.R. &sect; 565 and ISO 3779:2009 for information on the VIN format.</p>",
          "ErrorType": "Warning",
          "Message": "Invalid VIN"
        },
        {
          "Detail": "<p>Values in the Multiday-basis Used field are restricted to a predefined list of valid values. The supplied value &ldquo;l4&rdquo; is not one of those valid values (7, 8).</p>",
          "ErrorType": "Error",
          "Message": "Invalid Value"
        }
      ]
    }
  }
}
```

```

        "Detail": "File Received",
        "ErrorType": "Information",
        "Message": "File Received"
    },
    {
        "Detail": "<p>The VIN ABCDEFG15P456789
0 does not have a valid check-
digit. See 49 C.F.R. &sect; 565 and ISO 3779:2009 for info
rmation on the VIN format.</p>",
        "ErrorType": "Warning",
        "Message": "Invalid VIN"
    },
    {
        "Detail": "<p>The VIN QW7896321456987S
1 does not have a valid check-
digit. See 49 C.F.R. &sect; 565 and ISO 3779:2009 for info
rmation on the VIN format.</p>",
        "ErrorType": "Warning",
        "Message": "Invalid VIN"
    }
]
}
}
}

```

## 2.6.2- For Canada

### 2.6.2.1- Get Canada LogBook For Driver By Client

**Method Call name:** /HOSLogBook/v2.0/GetCanadaLogBookForClient

**Functionality:** Will return the Logs of one specific Driver of this specific Client from an specific Date Time

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSDriverId</b>	Integer	✓	Unique Id that identifies the Driver	-Must be a valid and existing Driver Id related with this Client
<b>FromDate</b>	Long	✓	Date and Time Epoch value for the Search of LogBook	-Must be a valid Date and Time -Must be in Epoch (GMT) format

#### Sample JSON:

```

{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RpN",
  "HOSDriverId": 108,
  "FromDate": 1634156520
}

```

## Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include the Driver's LogBook for the specified Driver of this specific Client starting from the specific Date-Time in a JSON format. It will have a specific structure (See Appendix 2, 2.7- HOSLogBookReportDTO)

### Sample JSON:

-After an invalid input data sent:

```
{
  "code": 7,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": {
    "Header": {
      "RecordDate": "",
      "DayStartingTime": "",
      "UTCTimeZoneOffset": "",
      "CurrentLocation": "",
      "Latitude": "",
      "Longitude": "",
      "FileComment": "",
      "CurrentDatetime": "",
      "DriverLastName": "",
      "DriverName": "",
      "DriverUserName": "",
      "ExemptDriverStatus": "0",
      "DriverLicense": "",
      "DriverLicenseState": "",
      "CoDriverLastName": "",
      "CoDriverName": "",
      "CoDriverUserName": "",
      "TractorList": [],
      "CurrentTotalDistance": 0,
      "CurrentTotalEngineHours": 0.0,
      "TrailerNumber": "",
      "CarrierName": "",
      "CarrierAddress": "",
      "HomeBaseAddress": "",
      "OperatingZone": 0,
      "Cycle": 0,
      "TotalHoursShift": "00:00",
      "TotalHoursCycle": "00:00",
      "RemainingHoursCycle": "00:00",
      "OffDutyTimeDeferral": "0 (none)",
      "DataDiagnosticList": [],
      "UnidentifiedDrivingRecords": 0,
      "MalfunctionList": [],
      "ELDIdentifier": "",
      "ELDProvider": "",
      "ELDCertificationId": "",
      "ELDAuthenticationValue": ""
    },
    "Points": [],
  }
}
```

```

        "DrivingAmount": 0,
        "OnDutyAmount": 0,
        "OffDutyAmount": 0,
        "SleeperBerthAmount": 0,
        "HOSViolations": [],
        "HOSEvents": {
            "List1": [],    "List2": [],    "List3": [],    "List4": []
        },
        "HOSRemarks": [],
        "DriversCMV": [],
        "PreviousEvent": null,
        "NextEvent": null
    }
}

```

### 2.6.2.2- Get Canada Print Display Logs For Driver By Client

**Method Call name:** /HOSLogBook/v2.0/GetCanadaPrintDisplayLogsForClient

**Functionality:** Will return or send by email Print Display Logs file of one specific or multiple Drivers for a specific Date Time range of this specific Client

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSDriverId</b>	Integer		Unique Id that identifies the Driver	-if not null or empty or 0 or -1 then it must be a valid and existing Driver Id related with this Client -Default value is 0 -It is required as a valid Driver ID if user want to get the data from a specific Driver
<b>TractorNumber</b>	String		Unique value that identifies an Asset	-It is required if user want to get the data from all Drivers that used a specific Asset
<b>FromDate</b>	Long	✓	Start Date and Time Epoch value for the Search of LogBook	-Must be a valid Date and Time -Must be in Epoch (GMT) format
<b>EndDate</b>	Long	✓	End Date and Time Epoch value for the Search of LogBook	-Must be a valid Date and Time -Must be in Epoch (GMT) format -Must be a value greater that FromDate value -If HOSDriverId and TractorNumber values are not provided then the report data will include all the available log data into the data range specified

<b>Comments</b>	String	✓	Comments to send if the Action selected is to send an email	
<b>Action</b>	Integer	✓	Action to execute: - 1 to retrieve pdf file(s) - 3 to send email to in a Canada Gov format to specified emails - 4 to send email in another format to specified emails accounts	-Must be only 1, 3 or 4, Default value is 1
<b>Emails</b>	String		List of emails accounts to send the pdf file(s)	-Must be a valid list of emails separated by “,” -It is required if Action selected is 3 or 4

Sample JSON:

- For one Driver data into a Date Range:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSDriverId": 108,
  "FromDate": 1634156520,
  "EndDate": 1634186533,
  "Action": 1,
  "Comments": "Testing"
}
```

- For All Drivers related with one Asset data into a Date Range and to send it in Canada Gov format using a list of emails:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "TractorNumber": 145454508,
  "FromDate": 1634156520,
  "EndDate": 1634186533,
  "Action": 3,
  "Comments": "To Gov emails",
  "Emails": "email1@testdomain.com,email2@testdomain.com"
}
```

- For All Drivers into a Date Range and to send it to a list of emails:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "FromDate": 1634156520,
  "EndDate": 1634186533,
  "Action": 4,
  "Comments": "To specific emails",
  "Emails": "email3@testdomain.com"
}
```

Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a List of Print Display Logs Data in PDF format for the data selected (For one or multiple Drivers on a Date Range) of this specific Client in a JSON format. It will be a list of objects with a specific structure (See Appendix 2, 2.8- ExportFileDTO)



Sample JSON:

-After an invalid input data sent:

```
{
  "code": 83,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": [
    {
      "FileName": "Deep_9343012522-000000000.pdf",
      "File": (Array Of Bytes)
    },
    {
      "FileName": "Carl_1353912544-000000000.pdf",
      "File": (Array Of Bytes),
    }
  ]
}
```

### 2.6.2.3- Get Canada ELD Data File For Driver By Client

**Method Call name:** /HOSLogBook/v2.0/GetCanadaELDDataFileForClient

**Functionality:** Will return the ELD Data Report file of one or multiples Drivers for a specific Date Time range of this specific Client

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSDriverId</b>	Integer		Unique Id that identifies the Driver	-if not null or empty or 0 or -1 then it must be a valid and existing Driver Id related with this Client -Default value is 0 -It is required as a valid Driver ID if user want to get the data from a specific Driver
<b>TractorNumber</b>	String		Unique value that identifies an Asset	-It is required if user want to get the data from all Drivers that used a specific Asset
<b>FromDate</b>	Long	✓	Start Date and Time Epoch value for the Search of LogBook	-Must be a valid Date and Time -Must be in Epoch (GMT) format
<b>EndDate</b>	Long	✓	End Date and Time Epoch value for the Search of LogBook	-Must be a valid Date and Time -Must be in Epoch (GMT) format

				-Must be a value greater than FromDate value -If HOSDriverId and TractorNumber values are not provided then the report data will include all the available log data into the data range specified
<b>Comments</b>	String	✓	Comments to send if the Action selected is to send an email	
<b>Action</b>	Integer	✓	Action to execute: - 1 to retrieve pdf file(s) - 3 to send email to in a Canada Gov format to specified emails - 4 to send email in another format to specified emails accounts	-Must be only 1, 3 or 4, Default value is 1
<b>Emails</b>	String		List of emails accounts to send the pdf file(s)	-Must be a valid list of emails separated by "," -It is required if Action selected is 3 or 4

Sample JSON:

- For one Driver data into a Date Range:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSDriverId": 108,
  "FromDate": 1634156520,
  "EndDate": 1634186533,
  "Action": 1
}
```

- For one Asset data into a Date Range and to send it in Canada Gov format using a list of emails::

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "TractorNumber": 145454508,
  "FromDate": 1634156520,
  "EndDate": 1634186533,
  "Action": 3,
  "Comments": "To Gov emails",
  "Emails": "email1@testdomain.com, email2@testdomain.com"
}
```

- For all data into a Date Range and to send it to a list of emails:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "FromDate": 1634156520,
  "EndDate": 1634186533,
  "Action": 4,
  "Comments": "To specific emails",
  "Emails": "email3@testdomain.com"
}
```

Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an

		error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Driver's ELD Data File in CSV format for one specific or multiple Drivers for a specific Date Range for this specific Client in a JSON format. It will have a specific structure (See Appendix 2, 2.8- ExportFileDTO)

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 7,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": [
    {
      "FileName": "Deep_9343012522-000000000.pdf",
      "File": (Array Of Bytes)
    },
    {
      "FileName": "Carl_1353912544-000000000.pdf",
      "File": (Array Of Bytes),
    }
  ]
}
```

2.6.3- Common methods

2.6.3.1- Create LogBook Event By Client

**Method Call name:** /HOSLogBook/v2.0/CreateHOSEventForClient

**Functionality:** Will create a new Event Log with new data

**Type of Method:** Post

Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSDriverId</b>	Integer	✓	Unique Id that identifies the Driver related to the new Event	- it must be a valid and existing Driver Id related with this Client
<b>EpochTimestamp</b>	Long	✓	Date and Time Epoch value for the Event	-Must be a valid Date and Time -Must be in Epoch (GMT) format
<b>Location</b>	String	✓	Event Location	- Must be between 5 and 60 characters.

<b>NewDriverStatus</b>	String	✓	New Driver Status	-Must be only valid status: (See Appendix 1, 1.18- Driver Status Codes)
<b>Remarks</b>	String	✓		-Must be between 4 and 60 characters.

Sample JSON:

```
{
  "HOSClientApiKey": "jRHBjJSh7x38wwNgLZ1hZjD4",
  "HOSDriverId": 19,
  "EpochTimestamp": 1645313802,
  "NewDriverStatus": "OFF",
  "Location": "AD 12345 11",
  "Remarks": "testing update"
}
```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null always

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 111,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": null
}
```

### 2.6.3.2- Update LogBook Event By Client

**Method Call name:** /HOSLogBook/v2.0/ModifyHOSEventForClient

**Functionality:** Will update the Event Log with new data

**Type of Method:** Post

### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSEventId</b>	Integer	✓	Unique Id that identifies the Event to be updated	- it must be a valid and existing Event Id related with this Client
<b>EpochTimestamp</b>	Long	✓	Date and Time Epoch value for the Event	-Must be a valid Date and Time -Must be in Epoch

				(GMT) format
<b>Location</b>	String	✓	Event Location	- Must be between 5 and 60 characters.
<b>NewDriverStatus</b>	String	✓	New Driver Status	-Must be only valid status: (See Appendix 1, 1.18- Driver Status Codes)
<b>Remarks</b>	String	✓		-Must be between 4 and 60 characters.

Sample JSON:

```
{
  "HOSClientApiKey": "jRHBJJSh7x38wwNgLZ1hZjD4",
  "HOSEventId": 90937,
  "EpochTimestamp": 1645313802,
  "NewDriverStatus": "OFF",
  "Location": "AD 12345 11",
  "Remarks": "testing update"
}
```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null always

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 111,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": null
}
```

### 2.6.3.3- Update LogBook Event Remark By Client

**Method Call name:** /HOSLogBook/v2.0/UpdateHOSEventRemarkForClient

**Functionality:** Will update the Event Log Remark with new Remark data

**Type of Method:** Post

### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system

<b>HOSEventId</b>	Integer	✓	Unique Id that identifies the Event to update its Remark	- it must be a valid and existing Event Id related with this Client
<b>Remarks</b>	String	✓		-Must be between 4 and 60 characters.

Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSEventId": 108,
  "Remarks": "testing"
}
```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null always

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 111,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": null
}
```

### 2.6.3.4- Delete LogBook Event By Client

**Method Call name:** /HOSLogBook/v2.0/DeleteHOSEventForClient

**Functionality:** Will delete the Event Log

**Type of Method:** Post

### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSEventId</b>	Integer	✓	Unique Id that identifies the Event to be deleted	- it must be a valid and existing Event Id related with this Client

Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSEventId": 108
}
```

## Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null always

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 111,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": null
}
```

### 2.6.3.5- Insert 2 LogBook Events By Client

**Method Call name:** /HOSLogBook/v2.0/CreateHOSEventsForClient

**Functionality:** Will create two new Event Logs with new data

**Type of Method:** Post

## Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSDriverId</b>	Integer	✓	Unique Id that identifies the Driver related to the new Event	- it must be a valid and existing Driver Id related with this Client
<b>HOSEvents</b>	JSON, with a List Of 2 HOSEventDTO	✓	List of 2 Events to Insert in JSON format	Each list item will have the specific following structure in JSON format:
- <b>EpochTimestamp</b>	Long	✓	Date and Time Epoch value for the Event	-Must be a valid Date and Time -Must be in Epoch (GMT) format
- <b>Location</b>	String	✓	Event Location	- Must be between 5 and 60 characters.
- <b>NewDriverStatus</b>	String	✓	New Driver Status	-Must be only valid status: (See Appendix 1, 1.18- Driver Status Codes)
- <b>Remarks</b>	String	✓		-Must be between 4 and 60 characters.

Sample JSON:

```
{
  "HOSClientApiKey": "jRHBjJSh7x38wwNgLz1hZjD4",
  "HOSDriverId": 19,
  "HOSEvents":
    [
      {
        "EpochTimestamp": 1645313802,
        "NewDriverStatus": "OFF",
        "Location": "AD 12345 11",
        "Remarks": "testing update1"
      },
      {
        "EpochTimestamp": 1645314525,
        "NewDriverStatus": "ON",
        "Location": "AD 12345 11",
        "Remarks": "testing update2"
      }
    ]
}
```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null always

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 111,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": null
}
```

## 2.7- For Unidentified Logs

### 2.7.1- Get All Vehicles By Client

**Method Call name:** /HOSUnidentifiedLogs/v2.0/GetVehiclesForHOSClient

**Functionality:** Will return the list of all Vehicles with Unidentified Logs for this specific Client

**Type of Method:** Get

### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client



				Key in our system
--	--	--	--	-------------------

Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn"
}
```

Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Vehicles with Unidentified Logs of this specific Client. Each list item will have a specific structure (See Appendix 2, 2.15- HOSVehicleProfileDTO)

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 98,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": [
    {
      "TractorVin": "0000000000000002",
      "TractorNumber": "2"
    },
    {
      "TractorVin": "12345678907896541",
      "TractorNumber": "122021"
    },
    {
      "TractorVin": "3AKJGLD50GSHB9440",
      "TractorNumber": "514"
    },
    {
      "TractorVin": "555555BCDEFIO898",
      "TractorNumber": "12"
    },
    {
      "TractorVin": "8888888888888883",
      "TractorNumber": "12346"
    },
    {
      "TractorVin": "8888888888888888",
      "TractorNumber": "104A"
    }
  ]
}
```

```

        "TractorVin": "8888888888888889",
        "TractorNumber": "1236"
    },
    {
        "TractorVin": "89567984694684648",
        "TractorNumber": "104AAA"
    },
    {
        "TractorVin": "ABCDEFGF1534567890",
        "TractorNumber": "TR-764"
    },
    {
        "TractorVin": "ABCDEFGF15P4567890",
        "TractorNumber": "110"
    },
    {
        "TractorVin": "QW7896321456987S1",
        "TractorNumber": "1234567890"
    },
    {
        "TractorVin": "QW7896321456987ST",
        "TractorNumber": "1234567890"
    },
    {
        "TractorVin": "VIN189634TP785412",
        "TractorNumber": "Number 1"
    },
    {
        "TractorVin": "VIN27",
        "TractorNumber": "Number429"
    },
    {
        "TractorVin": "VIN379",
        "TractorNumber": "Number842"
    },
    {
        "TractorVin": "VIN840",
        "TractorNumber": "Number775"
    }
}
]
}

```

### 2.7.2- Get All Unidentified Logs for one Asset By Client and DateTime range

**Method Call name:**

/HOSUnidentifiedLogs/v2.0/GetHOSUnidentifiedLogsForClient

**Functionality:** Will return the list of all Unidentified Logs of one specific Asset of this specific Client for a Date-Time Range

**Type of Method:** Get

**Input Parameters**

Field	Type	Required	Description	Validations
-------	------	----------	-------------	-------------

<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>TractorNumber</b>	String	✓	Unique value that identifies an Asset	-Not null or empty -Must have a value as a valid and existing Asset Tractor Number related to this Client in our system
<b>EventStatus</b>	Integer		Type of Event Status that want to list, null or -1 for all, 1 for Active and 2 for Assumed	-Only valid values are: Null or -1 for all events, 1 for Active and 2 for Assumed (See Appendix 1, 1.11- Event Status Codes )
<b>FromDate</b>	Long	✓	Start Date and Time Epoch value for the Search of Unidentified Logs	-Must be a valid Date and Time -Must be in Epoch (GMT) format -Must be a value lower than EndDate value
<b>EndDate</b>	Long	✓	End Date and Time Epoch value for the Search of Unidentified Logs	-Must be a valid Date and Time -Must be in Epoch (GMT) format -Must be a value greater than FromDate value

#### Sample JSON:

- For All Events with any status:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn",
  "FromDate": 1634156520,
  "EndDate": 1642436596,
  "TractorNumber": "110"
}
```

- For Events in Active Status:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn",
  "TractorNumber": "110",
  "FromDate": 1634156520,
  "EndDate": 1642436596,
  "EventStatus": 1
}
```

#### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well as if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Events for this Asset of this specific Client and for this specific Date-Time range in a JSON format. Each list item will have a specific structure (See Appendix 2, 2.10- HOSUnidentifiedEventResponseDTO)

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 90,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": [
    {
      "items": [
        {
          "TractorNumber": "110",
          "ELDIId": "745c32673dc05dc9",
          "TotalDrivenMiles": 0.0,
          "items": [
            {
              "HOSEventId": 41257,
              "TractorNumber": "110",
              "ELDIId": "745c32673dc05dc9",
              "Timestamp": 1634285847,
              "NewDriverStatus": "D",
              "VehicleMiles": 186.41,
              "DrivenMiles": 0.0,
              "EventStatus": 1,
              "Remark": "test"
            },
            {
              "HOSEventId": 41267,
              "TractorNumber": "110",
              "ELDIId": "745c32673dc05dc9",
              "Timestamp": 1634286328,
              "NewDriverStatus": "ON",
              "VehicleMiles": 0.0,
              "DrivenMiles": 0.0,
              "EventStatus": 1,
              "Remark": ""
            },
            {
              "HOSEventId": 41269,
              "TractorNumber": "110",
              "ELDIId": "745c32673dc05dc9",
              "Timestamp": 1634286388,
              "NewDriverStatus": "D",
              "VehicleMiles": 0.0,
              "DrivenMiles": 0.0,
              "EventStatus": 1,
              "Remark": ""
            }
          ]
        }
      ]
    },
    "ignitionList": [],
    "diagnosticList": []
  ]
}
```

## 2.8- For Log Edits

### 2.8.1- Get All Log Edits for All or one Driver By Client and DataTime range

**Method Call name:** /HOSLogEdits/v2.0/GetHOSLogEditsForClient

**Functionality:** Will return the list of all Log Edits of all Drivers or one specific Driver for all or one specific Driver Status of this specific Client for a Date-Time Range

**Type of Method:** Get

**Input Parameters**

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSDriverId</b>	Integer	✓	Unique value that identifies a Driver  Default value is -1 (all drivers)	-If null or empty then will get default value -1, if not then must have a value as a valid and existing Driver related to this Client in our system -if -1 then it will get data for all drivers
<b>DriverStatus</b>	Integer		Type of Driver Status that want to list, null or -1 for all, 1 for Active and 0 for Inactive	-Only valid values are: Null or -1 for all statuses, 1 for Active and 0 for Inactive (See Appendix 1, 1.12- Driver Status Codes )
<b>EventStatus</b>	Integer		Type of Event Status that want to list, null or -1 for all, 2 for Assumed, 3 for Requested and 4 for Rejected	-Only valid values are: Null or -1 for all events, 2 for Assumed, 3 for Requested and 4 for Rejected (See Appendix 1, 1.11- Event Status Codes )
<b>FromDate</b>	Long	✓	Start Date and Time Epoch value for the Search of Log Edits	-Must be a valid Date and Time -Must be in Epoch (GMT) format -Must be a value lower than EndDate value
<b>EndDate</b>	Long	✓	End Date and Time Epoch value for the Search of Log Edits	-Must be a valid Date and Time -Must be in Epoch (GMT) format -Must be a value greater than FromDate value

**Sample JSON:**

- For All Log Edits for All Drivers with any Driver and Event status:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn",
  "FromDate": 1634156520,
  "EndDate": 1642436596,
  "HOSDriverId": -1
}
```

- For Log Edits in Rejected Status for one specific Driver in Active Status:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn",
  "HOSDriverId": 11,
  "FromDate": 1634156520,
  "EndDate": 1642436596,
  "DriverStatus": 1,
}
```

```

    "EventStatus":2
}

```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Events for this Driver of this specific Client and for this specific Date-Time range in a JSON format. Each list item will have a specific structure (See Appendix 2, 2.11- HOSRequestedLogDTO)

### Sample JSON:

-After an invalid input data sent:

```

{
  "code": 90,
  "data": null
}

```

-After a valid input data sent:

```

{
  "code": 1,
  "data": [
    {
      "RequestedNombre": "Robinson, Frank",
      "RequestedTractorNumber": "1234567890",
      "RequestedTimestamp": 1637659020,
      "RequestedNewDriverStatus": "ON",
      "RequestedLocation": "1818.47 km S Leamington Ontario",
      "RequestedEventStatus": 1,
      "Motive": 2,
      "OriginalTimestamp": 631036800
    }
  ]
}

```

## 2.9- For Dashboard

### 2.9.1- Get All Shipments in Transit By Client

**Method Call name:** /HOSDashboard/v2.0/GetShipmentsInTransitForClient

**Functionality:** Will return the total of all Shipments in Transit of this specific Client

**Type of Method:** Get

### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system

### Sample JSON:

```

{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn"
}

```

}

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include an Integer Value with the Total of Shipments in Transit in a JSON format.

Sample JSON:

-After an invalid input data sent:

```
{  
  "code": 7,  
  "data": null  
}
```

-After a valid input data sent:

```
{  
  "code": 1,  
  "data": {  
    "Total": 12  
  }  
}
```

### 2.9.2- Get ELD Compliance By Client

**Method Call name:** /HOSDashboard/v2.0/GetELDComplianceForClient

**Functionality:** Will return the total of ELD Compliance of this specific Client

**Type of Method:** Get

### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system

Sample JSON:

```
{  
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn"  
}
```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include an Integer Value with the Total of ELD Compliance in a JSON format.

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 7,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": {
    "Total": 0
  }
}
```

### 2.9.3- Get All Unassigned Driving By Client

**Method Call name:** /HOSDashboard/v2.0/GetUnassignedDrivingForClient

**Functionality:** Will return the total of all Unassigned Driving of this specific Client

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system

Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn"
}
```

#### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include an Integer Value with the Total of Unassigned Driving in a JSON format.

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 7,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": {
    "Total": 12
  }
}
```



#### 2.9.4- Get Violations Amount By Client

**Method Call name:** /HOSDashboard/v2.0/GetViolationsAmountForClient

**Functionality:** Will return the total of Violations of this specific Client

**Type of Method:** Get

##### Input Parameters

Field	Type	Required	Description	Validations
HOSClientApiKey	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system

Sample JSON:

```
{  
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn"  
}
```

##### Output Parameters

Field	Type	Description
code	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
data	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include an Integer Value with the Total of Violations in a JSON format.

Sample JSON:

-After an invalid input data sent:

```
{  
  "code": 7,  
  "data": null  
}
```

-After a valid input data sent:

```
{  
  "code": 1,  
  "data": {  
    "Total": 5  
  }  
}
```

#### 2.9.5- Get Violations Amount By Month By Client

**Method Call name:**

/HOSDashboard/v2.0/GetViolationsAmountByMonthForClient

**Functionality:** Will return the List of Violations By Month of this specific Client

**Type of Method:** Get

##### Input Parameters

Field	Type	Required	Description	Validations
HOSClientApiKey	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system

Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn"
}
```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Violations for this specific Client in a JSON format. Each list item will have a specific structure (See Appendix 2, 2.12- ComplianceDashboardDTO)

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 7,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": {
    "Months": [
      9,
      10,
      11,
      12,
      1,
      2
    ],
    "TotalAmount": [
      0,
      91,
      5,
      2,
      5,
      1
    ],
    "BreaksAmount": [
      0,
      30,
      4,
      0,
      3,
      1
    ],
    "OnDutyAmount": [
```

```

        0,
        36,
        1,
        1,
        2,
        0
    ],
    "DrivingAmount": [
        0,
        24,
        0,
        0,
        0,
        0
    ],
    "CycleAmount": [
        0,
        3,
        0,
        1,
        1,
        0
    ]
}
}
}

```

## 2.9.6- Get Roadside Inspections By Client

**Method Call name:** /HOSDashboard/v2.0/GetRoadsideInspectionsForClient

**Functionality:** Will return the List of Roadside Inspections of this specific Client

**Type of Method:** Get

### Input Parameters

Field	Type	Required	Description	Validations
HOSClientApiKey	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system

### Sample JSON:

```

{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn"
}

```

### Output Parameters

Field	Type	Description
code	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
data	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Roadside Inspections for this specific Client in a JSON format. Each list item will have a specific structure (See Appendix 2, 2.13- ComplianceRoadsideInspectionDTO)

### Sample JSON:

-After an invalid input data sent:

```
{
  "code": 7,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": {
    "Labels": [
      "1-12",
      "1-13",
      "1-14",
      "1-15",
      "1-16",
      "1-17",
      "1-18",
      "1-19",
      "1-20",
      "1-21",
      "1-22",
      "1-23",
      "1-24",
      "1-25",
      "1-26",
      "1-27",
      "1-28",
      "1-29",
      "1-30",
      "1-31",
      "2-1",
      "2-2",
      "2-3",
      "2-4",
      "2-5",
      "2-6",
      "2-7",
      "2-8",
      "2-9",
      "2-10",
      "2-11"
    ],
    "Data": [
      0,
      0,
      0,
      0,

```

```

0,
0,
0,
0,
0,
2,
0,
0,
0,
0,
0,
0,
0,
0,
0,
0,
0,
0,
0,
0,
0,
0,
0,
11,
1,
0,
1,
0
],
"TotalAmount": 15,
"VehiclesCompliant": 0,
"VehicleDefectsSolved": 0,
"VehicleDefectsPending": 2
}
}

```

**2.9.7- Get Hours of Services By Driver By Client**

**Method Call name:** /HOSDashboard/v2.0/GetHoursOfServiceByDriverForClient

**Functionality:** Will return the List of Hours of Services for all or one specific Driver of this specific Client

**Type of Method:** Get

**Input Parameters**

Field	Type	Required	Description	Validations
HOSClientApiKey	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
HOSDriverId	Integer	✓	Unique value that identifies a Driver Default value is -1	If 0 or -1 or null or empty then will use the default value -1 and will return data for all drivers -if have a value then it must be a valid and

				existing Driver related to this Client in our system or must be 0 or -1 value for all drivers
--	--	--	--	---

Sample JSON:

-For all Drivers:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSDriverId": -1
}
```

-For one specific Driver:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "HOSDriverId": 110
}
```

Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Hours of Services for all or one specific Driver for this specific Client in a JSON format. Each list item will have a specific structure (See Appendix 2, 2.14- HOSDashboardDTO)

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 51,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": [
    {
      "LastLocation": "1818.44 km S Leamington Ontario",
      "LastUpdateTimestamp": 1629193550,
      "DriverName": "Carlos",
      "DriverLastName": "Diaz",
      "HOSDriverId": 21,
      "HOSUserName": "iouser",
      "HOSRuleSetId": 2,
      "DrivingAmount": 0.16777777777777778,
      "DrivingString": "00:10/15:49",
      "DrivingColor": "Green",
      "OnDutyAmount": 0.19583333333333336,
      "OnDutyString": "00:11/11:48",
      "OnDutyColor": "Green",
      "OnDutyWeekAmount": 0.19583333333333336,
      "OnDutyWeekString": "00:11/79:48",
      "OnDutyWeekColor": "Green",
      "CurrentDutyStatus": "OFF",
      "CurrentDutyStatusColor": "gray",
      "Next30BreakTimestamp": 0,
      "Next30BreakColor": null
    }
  ]
}
```

```

    ]
}

```

## 2.10- For Violations

### 2.10.1- Get All Violations for All or one Driver By Client and DataTime range

**Method Call name:** /HOSViolation/v2.0/GetHOSViolationsForClient

**Functionality:** Will return the list of all Violations of all Drivers or one specific Driver for all or one specific Driver Status of this specific Client for a Date-Time Range

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSDriverId</b>	Integer	✓	Unique value that identifies a Driver Default value is -1	If 0 or -1 or null or empty then will use the default value -1 and will return data for all drivers -if have a value then it must be a valid and existing Driver related to this Client in our system or must be 0 or -1 value for all drivers
<b>DriverStatus</b>	Integer		Type of Driver Status that want to list, null or -1 for all, 1 for Active and 0 for Inactive	-Only valid values are: Null or -1 for all statuses, 1 for Active and 0 for Inactive (See Appendix 1, 1.12- Driver Status Codes )
<b>FromDate</b>	Long	✓	Start Date and Time Epoch value for the Search of Log Edits	-Must be a valid Date and Time -Must be in Epoch (GMT) format -Must be a value lower than EndDate value
<b>EndDate</b>	Long	✓	End Date and Time Epoch value for the Search of Log Edits	-Must be a valid Date and Time -Must be in Epoch (GMT) format -Must be a value greater than FromDate value

#### Sample JSON:

- For All Violations All Drivers with any Driver status:

```

{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn",
  "FromDate": 1634156520,
  "EndDate": 1642436596,
  "HOSDriverId": -1
}

```

- For Violations for one specific Driver in Active Status:

```

{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn",
  "HOSDriverId": 11,
  "FromDate": 1634156520,
  "EndDate": 1642436596,
}

```

```

    "DriverStatus":1
}

```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Violations for this Driver of this specific Client and for this specific Date-Time range in a JSON format. Each list item will have a specific structure (See Appendix 2, 2.16- HOSViolationDTO)

### Sample JSON:

-After an invalid input data sent:

```

{
  "code": 90,
  "data": null
}

```

-After a valid input data sent:

```

{
  "code": 1,
  "data": [
    {
      "ExternalName": "QA Test",
      "HOSUserName": "sdsd1",
      "Timestamp": 1637186430,
      "Violation": "14-Hours Limit"
    },
    {
      "ExternalName": "Deep Jonny",
      "HOSUserName": "ddd",
      "Timestamp": 1636171199,
      "Violation": "Daily Off-Time Required"
    },
    {
      "ExternalName": "Deep Jonny",
      "HOSUserName": "ddd",
      "Timestamp": 1636257599,
      "Violation": "Daily Off-Time Required"
    },
    {
      "ExternalName": "Deep Jonny",
      "HOSUserName": "ddd",
      "Timestamp": 1636430399,
      "Violation": "Daily Off-Time Required"
    }
  ]
}

```



## 2.11- For Driver Records

### 2.11.1- Get All Driver Records for All or specific Events for All or one Driver By Client and DateTime range

**Method Call name:** /HOSRecord/v2.0/GetDriverRecordsForClient

**Functionality:** Will return the list of all Driver Records of all Drivers or one specific Driver for all or one specific Event of this specific Client for a Date-Time Range

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSDriverId</b>	Integer	✓	Unique value that identifies a Driver Default value is -1	If 0 or -1 or null or empty then will use the default value -1 and will return data for all drivers -if have a value then it must be a valid and existing Driver related to this Client in our system or must be 0 or -1 value for all drivers
<b>FromDate</b>	Long	✓	Start Date and Time Epoch value for the Search of Log Edits	-Must be a valid Date and Time -Must be in Epoch (GMT) format -Must be a value lower than EndDate value
<b>EndDate</b>	Long	✓	End Date and Time Epoch value for the Search of Log Edits	-Must be a valid Date and Time -Must be in Epoch (GMT) format -Must be a value greater than FromDate
<b>EventStatus</b>	Integer		Type of Event Status that want to list, null or -1 for all, from 1 to 4 for valid Event statuses	-Only valid values are: Null or -1 for all statuses, and from 1 to 4 (See Appendix 1, 1.11- Event Statuses Codes )
<b>EventOrigin</b>	Integer		Type of Event Origin that want to list, null or -1 for all, from 1 to 4 for valid Event origins	-Only valid values are: Null or -1 for all origins, and from 1 to 4 (See Appendix 1, 1.13- Event Origins Codes )
<b>EventType</b>	Integer		Type of Event that want to list, null or -1 for all, from 1 to 7 for valid Event types	-Only valid values are: Null or -1 for all types, and from 1 to 7 (See Appendix 1, 1.14- Event Type Codes )
<b>EventCode</b>	Integer		Type of Event Codes that want to list, null or -1 for all, from 1 to 9 for valid Event codes	-Only valid values are: Null or -1 for all codes, and from 1 to 9 -Description or Value of each Code depends on a Combination of Event Type and Event Code (See Appendix 1, 1.15- Event Codes)

#### Sample JSON:

```

- For All Driver Records for All Drivers with any Event:
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPh",
  "FromDate": 1634156520,
  "EndDate": 1642436596,
  "HOSDriverId": -1
}

```

- For Driver Records for one specific Driver with Event Status Active:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn",
  "HOSDriverId": 11,
  "FromDate": 1634156520,
  "EndDate": 1642436596,
  "EventStatus": 1
}
```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Driver Records of specific Events and for Drivers of this specific Client and for this specific Date-Time range in a JSON format. Each list item will have a specific structure (See Appendix 2, 2.17- HOSEventRecordDTO)

### Sample JSON:

-After an invalid input data sent:

```
{
  "code": 100,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": [
    {
      "HOSEventId": 42177,
      "ELDId": "812c3a0ad2af60e4",
      "AppVersion": "203",
      "Timestamp": 1638307037,
      "TimestampString": null,
      "HOSDriverId": 379,
      "HOSDriver": "",
      "HOSCoDriverId": 0,
      "HOSCoDriver": null,
      "TractorNumber": "110",
      "TrailerNumber": "",
      "TractorVin": "-ABCDEFG15P4567890",
      "City": "Doral",
      "State": "Florida",
      "Latitude": "25.81",
      "Longitude": "-80.33",
      "DriverLocationDesc": "Doral , Florida",
      "OldDriverStatus": null,
      "NewDriverStatus": "ZON",
      "EventStatus": 1,
      "EventOrigin": 2,
      "EventType": 22,
    }
  ]
}
```

```

        "EventCode": 3,
        "MalFunctionDiagnosticCode": "",
        "DrivenMiles": 0.0,
        "VehicleMiles": 0.0,
        "ElapsedEngineHours": 0
    },
    {
        "HOSEventId": 42342,
        "ELDId": "812c3a0ad2af60e4",
        "AppVersion": "203",
        "Timestamp": 1637815366,
        "TimestampString": null,
        "HOSDriverId": 381,
        "HOSDriver": "",
        "HOSCoDriverId": 0,
        "HOSCoDriver": null,
        "TractorNumber": "1234567890",
        "TrailerNumber": "",
        "TractorVin": "-QW7896321456987S1",
        "City": "",
        "State": "",
        "Latitude": "",
        "Longitude": "",
        "DriverLocationDesc": "",
        "OldDriverStatus": null,
        "NewDriverStatus": "LOG_IN",
        "EventStatus": 1,
        "EventOrigin": 2,
        "EventType": 5,
        "EventCode": 1,
        "MalFunctionDiagnosticCode": "",
        "DrivenMiles": 0.0,
        "VehicleMiles": 0.0,
        "ElapsedEngineHours": 0
    }
]
}

```

## 2.12- For FMCSA Records

### 2.12.1- Get All FMCSA Records for All or one Driver By Client and DataTime range

**Method Call name:** /FMCSARecord/v2.0/GetFMCSARecordsForClient

**Functionality:** Will return the list of all FMCSA Records of all Drivers or one specific Driver of this specific Client for a Date-Time Range

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
HOSClientApiKey	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system

<b>HOSDriverId</b>	Integer	✓	Unique value that identifies a Driver Default value is -1	If 0 or -1 or null or empty then will use the default value -1 and will return data for all drivers -if have a value then it must be a valid and existing Driver related to this Client in our system or must be 0 or -1 value for all drivers
<b>FromDate</b>	Long	✓	Start Date and Time Epoch value for the Search of Log Edits	-Must be a valid Date and Time -Must be in Epoch (GMT) format -Must be a value lower than EndDate value
<b>EndDate</b>	Long	✓	End Date and Time Epoch value for the Search of Log Edits	-Must be a valid Date and Time -Must be in Epoch (GMT) format -Must be a value greater than FromDate

#### Sample JSON:

- For All FMCSA Responses and All Drivers:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn",
  "FromDate": 1634156520,
  "EndDate": 1642436596,
  "HOSDriverId": -1
}
```

- For FMCSA Responses for one specific Driver:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn",
  "HOSDriverId": 11,
  "FromDate": 1634156520,
  "EndDate": 1642436596
}
```

#### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well as if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of FMCSA Records for this Driver of this specific Client and for this specific Date-Time range in a JSON format. Each list item will have a specific structure (See Appendix 2, 2.9.1- FMCSAResponseDTO)

#### Sample JSON:

- After an invalid input data sent:

```
{
  "code": 103,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": [
    {
      "HOSDriverId": 17,
      "DriverName": "Pino, Carlos",
      "HOSUserName": "cccc",
      "Timestamp": 1638377534,
      "Status": "Warning",
      "SubmissionId": "dbb3110b-a060-4a02-a05e-721955d94ac0",
      "ErrorCount": 7,
      "Broadcast": "As of June 26th 2021 security settings on all
      FMCSA servers reflect required changes to meet cyberse",
      "Errors": [
        {
          "Detail": "\u003Cp\u003EThe VIN -QW7896321456987S1 does not
          have a valid check-digit. See 49 C.F.R. \u0026sect; 565 and ISO
          3779:2009 for information on the VIN format.\u003C/p\u003E",
          "ErrorType": "Warning",
          "Message": "Invalid VIN"
        },
        {
          "Detail": "\u003Cp\u003EThe field CMV VIN has a length of 7
          characters. CMV VIN fields should have a length between 17 and 18
          characters.\u003C/p\u003E",
          "ErrorType": "Warning",
          "Message": "Invalid Field Length"
        }
      ]
    }
  ]
}
```

## 2.13- For Engine Diagnostic

### 2.13.1- Get All Engine Diagnostic for All or one Vehicle and Status By Client and DateTime range

**Method Call name:** /DTCReport/v2.0/GetDTCReportForClient

**Functionality:** Will return the list of all Engine Diagnostic of all Vehicle or one specific vehicle with an Status of this specific Client for a Date-Time Range

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>TractorVIN</b>	String		If provided, is an Unique VIN value that identifies a Tractor	-If provided then can be must have a value as a valid and existing Tractor VIN related to

				this Client in our system or must be empty value for all Tractors
<b>FromDate</b>	Long	✓	Start Date and Time Epoch value for the Search of Log Edits	-Must be a valid Date and Time -Must be in Epoch (GMT) format -Must be a value lower than EndDate value
<b>EndDate</b>	Long	✓	End Date and Time Epoch value for the Search of Log Edits	-Must be a valid Date and Time -Must be in Epoch (GMT) format -Must be a value greater than FromDate value
<b>Status</b>	Integer		Engine Status. Values from -1 to 1.	-If provided should be a valid value, -1 to all statuses, 0 for Inactive and 1 for Active (See Appendix 1, 1.16- Engine Status Codes)

Sample JSON:

- For All Tractor and All Statuses:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "FromDate": 1634156520,
  "EndDate": 1642436596,
  "TractorVIN": ""
}
```

- For one specific Tractor VIN in Active Status:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "TractorVIN": "3434334",
  "FromDate": 1634156520,
  "EndDate": 1642436596,
  "Status": 1
}
```

Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Engine Diagnostics for a Vehicle VIN in an specific Status of this specific Client and for this specific Date-Time range in a JSON format. Each list item will have a specific structure (See Appendix 2, 2.18- BasicHOSDTCReportDTO)

Sample JSON:

- After an invalid input data sent:

```
{
  "code": 105,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": [
    {
      "DTCCode": "4782",
      "DTCCodeName": "Aftertreatment 1 Diesel Particulate
        Filter Soot Density",
      "FMI": 1,
      "FMIDescription": "Low \u2013 most severe (3)",
      "TractorVin": "QW7896321456987S1",
      "TractorNumber": "1234567890",
      "OpenTimestamp": 1635356497,
      "ClosedTimestamp": 0,
      "BusType": 3
    }
  ]
}
```

## 2.14- For Driver Duty Report

### 2.14.1- Get Driver Duty Report for All or a list of Drivers By Client and DateTime range

**Method Call name:** /HOSDriver/v2.0/GetDriverDutyReportForClient

**Functionality:** Will return the list of Driver Duty Reports of all Drivers or an specific list of Drivers of this specific Client for a Date-Time Range

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSDrivers</b>	List Of Integers		If provided, it should be a list of Unique IDs value that identifies a list of Drivers of this Client	-If provided then must have a list of value as valid and existing Driver IDs related to this Client in our system or must be empty list or value for all Drivers
<b>FromDate</b>	Long	✓	Start Date and Time Epoch value for the Search of Log Edits	-Must be a valid Date and Time -Must be in Epoch (GMT) format -Must be a value lower than EndDate value
<b>EndDate</b>	Long	✓	End Date and Time Epoch value for the Search of Log Edits	-Must be a valid Date and Time -Must be in Epoch (GMT) format -Must be a value greater than FromDate value

### Sample JSON:

#### - For All Tractor and All Statuses:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn",
  "FromDate": 1634156520,
  "EndDate": 1642436596
}
```

#### - For 2 specifics Drivers:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526Rpn",
  "HOSDrivers": [23, 55],
  "FromDate": 1634156520,
  "EndDate": 1642436596
}
```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Engine Diagnostics for a Vehicle VIN in an specific Status of this specific Client and for this specific Date-Time range in a JSON format. Each list item will have a specific structure (See Appendix 2, 2.18- BasicHOSDTCReportDTO)

### Sample JSON:

#### -After an invalid input data sent:

```
{
  "code": 106,
  "data": null
}
```

#### -After a valid input data sent:

```
{
  "code": 1,
  "data": [
    {
      "DriverName": "driver",
      "DriverLastName": "driver04442",
      "DriverHOSUserName": "drv044",
      "OffDutyAmount": 0.0,
      "SleeperBerthAmount": 0.0,
      "DrivingAmount": 0.0,
      "OnDutyAmount": 0.0,
      "PersonalUseAmount": 0.0
    },
    {
      "DriverName": "drv carlitos temp.",
      "DriverLastName": "Carls",
      "DriverHOSUserName": "carls.temp",
      "OffDutyAmount": 0.0,
      "SleeperBerthAmount": 0.0,
      "DrivingAmount": 0.0,
      "OnDutyAmount": 0.0,
    }
  ]
}
```



```

        "PersonalUseAmount": 0.0
    },
    {
        "DriverName": "Jane",
        "DriverLastName": "Doe",
        "DriverHOSUserName": "jdjd",
        "OffDutyAmount": 0.0,
        "SleeperBerthAmount": 0.0,
        "DrivingAmount": 0.0,
        "OnDutyAmount": 0.0,
        "PersonalUseAmount": 0.0
    }
]
}

```

## 2.15- For HOSNotification

### 2.15.1- Get All Notifications By Client

**Method Call name:** /HOSNotification/v2.0/GetHOSNotificationsForClient

**Functionality:** Will return the list of Notifications of this specific Client

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system

Sample JSON:

```

{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RpN"
}

```

#### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include a list of Notifications for this specific Client. Each list item will have a specific structure (See Appendix 2, 2.19- HOSNotificationDTO)

Sample JSON:

-After an invalid input data sent:

```

{
  "code": 7,
  "data": null
}

```

-After a valid input data sent:

```

{
  "code": 1,
  "data": [
    {
      "HOSNotificationId": 94,
      "HOSClientId": 386,
      "Name": "test222",
      "Type": 3,
      "Emails": "test2@sds.com",
      "Drivers": null,
      "Assets": [
        3773
      ]
    },
    {
      "HOSNotificationId": 95,
      "HOSClientId": 386,
      "Name": "second",
      "Type": 2,
      "Emails": "other@email.com",
      "Drivers": [
        2459,
        2610
      ],
      "Assets": null
    }
  ]
}

```

### 2.15.2- Get Notification By Client

**Method Call name:** /HOSNotification/v2.0/GetHOSNotificationForClient

**Functionality:** Will return an specific Notification of this specific Client

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSNotificationId</b>	Integer	✓	Unique ID that identifies the Notification of this Client	-Not null or empty -Must have a value as a valid and existing HOSNotification ID of this Client in our system

Sample JSON:

```

{
  "HOSClientApiKey": "FBrDkbvlgg4Dae3EIf526RpN",
  "HOSNotificationId": 94
}

```

## Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include Details of Notification for this specific Client. It will have a specific structure (See Appendix 2, 2.19- HOSNotificationDTO)

### Sample JSON:

-After an invalid input data sent:

```
{
  "code": 155,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": {
    "HOSNotificationId": 94,
    "HOSClientId": 386,
    "Name": "test222",
    "Type": 3,
    "Emails": "test2@sds.com",
    "Drivers": null,
    "Assets": [
      3773
    ]
  }
}
```

### 2.15.3- Add New Notification By Client

**Functionality:** Will insert a new Notification for this specific Client

**Method Call name:** /HOSNotification/v2.0/InsertHOSNotificationForClient

**Type of Method:** Post

### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must be a valid and existing Client Key in our system
<b>Notification</b>	JSON	✓	This will be the Notification data to insert in our system	-Not null or empty -Following rules apply for each field into the JSON:
- HOSNotificationId	Integer		Will be 0 since it is a new Notification to Insert	-N/A
- Name	String	✓	Notification Name	-Not null or empty

- Type	Integer	✓	Notification Type	-Not null or empty -Must be a valid Notification Type code value, between 1 and 5 (See Appendix 1, 1.17- Notification Type Codes)
- Emails	String	✓	List of Emails	-Not null or empty -Must be a valid list of emails separated by “ ”
- Drivers	List of Integer		List of Drivers Unique Identifiers	-Not null or empty if Type is 2 or 4
- Assets	List of Integer		List of Assets Unique Identifiers	-Not null or empty if Type is 1, 3 or 5

Sample JSON:

- For Insert “Mal Function” (Type 3) New Notification:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "Notification": {
    "Name": "test234",
    "Type": 3,
    "Emails": "test2@sds.com",
    "Drivers": null,
    "Assets": [
      3773
    ]
  }
}
```

- For Insert “HOS Violation” (Type 2) New Notification:

```
{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RPn",
  "Notification": {
    "Name": "test567",
    "Type": 2,
    "Emails": "test4@sds.com,test5@sds.com",
    "Drivers": [
      12774,
      12777
    ],
    "Assets": null
  }
}
```

## Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include the new HOS Notification just inserted in a JSON format. It will have a specific structure (See Appendix 2, 2.19- HOSNotificationDTO)

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 157,
  "data": null
}
```

-After a successful insertion API will send back the full data of Notification inserted:

```
{
  "code": 1,
  "data": {
    "HOSNotificationId": 104,
    "HOSClientId": 386,
    "Name": "test234",
    "Type": 3,
    "Emails": "test2@sds.com",
    "Drivers": null,
    "Assets": [
      3773
    ]
  }
}
```

### 2.15.4- Update Notification By Client

**Functionality:** Will update an existing Notification for this specific Client

**Method Call name:** /HOSNotification/v2.0/UpdateHOSNotificationForClient

**Type of Method:** Post

**Input Parameters**

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must be a valid and existing Client Key in our system
<b>Notification</b>	JSON	✓	This will be the Notification data to insert in our system	-Not null or empty -Following rules apply for each field into the JSON:
- HOSNotificationId	Integer		Unique Notification ID that identifies the Notification of this Client	-Not null or empty -Must be a valid and existing Notification ID for this Client in our system
- Name	String	✓	Notification Name	-Not null or empty
- Type	Integer	✓	Notification Type	-Not null or empty

				-Must be a valid Notification Type code value, between 1 and 5 (See Appendix 1, 1.17- Notification Type Codes)
- Emails	String	✓	List of Emails	-Not null or empty -Must be a valid list of emails separated by “,”
- Drivers	List of Integer		List of Drivers Unique Identifiers	-Not null or empty if Type is 2 or 4
- Assets	List of Integer		List of Assets Unique Identifiers	-Not null or empty if Type is 1, 3 or 5

### Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkbvlgg4Dae3EIf526Rpn",
  "Notification": {
    "HOSNotificationId": 104,
    "Name": "test234-Updated",
    "Type": 3,
    "Emails": "test2@sds.com",
    "Drivers": null,
    "Assets": [
      3773
    ]
  }
}
```

### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	String	-Will return Null if any error happened which means that code value is different of 1 -Will include the HOS Notification just updated in a JSON format. It will have a specific structure (See Appendix 2, 2.19- HOSNotificationDTO)

### Sample JSON:

-After an invalid input data sent:

```
{
  "code": 155,
  "data": null
}
```

-After a successful update API will send back the full data of Asset updated:

```
{
  "code": 1,
  "data": {
    "HOSNotificationId": 104,
    "HOSClientId": 386,
  }
}
```

```

        "Name": "test234-Updated",
        "Type": 3,
        "Emails": "test2@sds.com",
        "Drivers": null,
        "Assets": [
            3773
        ]
    }
}

```

### 2.15.5- Delete Notification By Client

**Method Call name:** /HOSNotification/v2.0/DeleteHOSNotificationForClient

**Functionality:** Will delete an specific Notification of this specific Client

**Type of Method:** Post

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSNotificationId</b>	Integer	✓	Unique HOS Notification ID in our system	-Not null or empty -Must be a valid and existing HOS Notification ID for this specific Client in our system

#### Sample JSON:

```

{
  "HOSClientApiKey": "FBrDkbv1gg4Dae3EIf526RpN",
  "HOSNotificationId": 205
}

```

#### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null always

#### Sample JSON:

-After an invalid input data sent:

```

{
  "code": 155,
  "data": null
}

```

-After a valid input data sent:

```

{
  "code": 1,
  "data": null
}

```

## 2.16- For IFTA

### 2.16.1- Get IFTA Report By Client

**Method Call name:** /IFTA/v2.0/GetIFTAReportForClient

**Functionality:** Will return the IFTA Report for one specific Tractor VIN for a specific Date Time range of this specific Client

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>TractorVIN</b>	String	✓	VIN value of one specific Tractor of the Client specified	-Not null or empty
<b>Month</b>	Integer	It is required if "Quarter" field is null, empty or 0	Month of the Year requested for the Report	-Default value is 0
<b>Quarter</b>	Integer	It is required if "Month" field is null, empty or 0	Quarter of the Year requested for the Report	-Default value is 0
<b>Year</b>	Integer	✓	Year of the Report requested	-Not null or empty -Default value is 0 -Must be a valid Year value -It can be only the current year or previous year

#### Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkbvlg333ae3EIf526RPn",
  "TractorVIN": "testVIN",
  "Quarter": 1,
  "Year": 2022
}
```

#### Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include the IFTA Report for this Tractor VIN and for the Date Time Requested for this specific Client. It will have a specific structure (See Appendix 2, 2.20- IFTAReportDTO)

#### Sample JSON:

-After an invalid input data sent:

```
{
  "code": 172,
  "data": null
}
```



-After a valid input data sent:

```

{
  "code": 1,
  "data": {
    "TractorVin": "QW7893331456987S1",
    "items": [
      {
        "State": "FL",
        "TotalMiles": 460.82,
        "TaxableMiles": 460.82,
        "TaxableGallons": 544.73,
        "TaxPaidGallons": 0.0,
        "NetTaxableGallons": 544.73,
        "TaxRate": 0.0,
        "TaxCreditDue": 0.0,
        "Total": 0.0
      },
      {
        "State": "Florida",
        "TotalMiles": 309.0,
        "TaxableMiles": 309.0,
        "TaxableGallons": 365.27,
        "TaxPaidGallons": 910.0,
        "NetTaxableGallons": -544.73,
        "TaxRate": 0.0,
        "TaxCreditDue": 0.0,
        "Total": 0.0
      }
    ],
    "TotalMiles": 769.82,
    "TaxableMiles": 769.82,
    "MPG": 0.85,
    "TaxPaidGallons": 910.0
  }
}

```

### 2.16.2- Get IFTA Annual Mileage By Client

**Method Call name:** /IFTA/v2.0/GetIFTAAnnualMileageForClient

**Functionality:** Will return the IFTA Annual Mileage for an specific Tractor VIN for a specific year of this specific Client

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>TractorVIN</b>	String	✓	VIN value of one specific Tractor of the Client specified	-Not null or empty

<b>Year</b>	Integer	✓	Year of the Report requested	-Not null or empty -Default value is 0 -Must be a valid Year value -It can be only the current year or previous year
-------------	---------	---	------------------------------	---

Sample JSON:

```
{
  "HOSClientApiKey": "FBrDkbvlg333ae3EIf526RPn",
  "TractorVIN": "testVIN",
  "Year": 2022
}
```

Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include the IFTA Report of Total Mileages for this Tractor VIN and for the Year Requested for this specific Client. It will have a specific structure (See Appendix 2, 2.20- IFTAReportDTO)

Sample JSON:

-After an invalid input data sent:

```
{
  "code": 172,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": {
    "TractorVin": "QW78943333456987S1",
    "items": [
      {
        "State": "Florida",
        "TotalMiles": 1019.96,
        "TaxableMiles": 1019.96,
        "TaxableGallons": 0.0,
        "TaxPaidGallons": 0.0,
        "NetTaxableGallons": 0.0,
        "TaxRate": 0.0,
        "TaxCreditDue": 0.0,
        "Total": 0.0
      },
      {
        "State": "FL",
        "TotalMiles": 460.82,
        "TaxableMiles": 460.82,
        "TaxableGallons": 0.0,
        "TaxPaidGallons": 0.0,
        "NetTaxableGallons": 0.0,

```

```

        "TaxRate": 0.0,
        "TaxCreditDue": 0.0,
        "Total": 0.0
    }
},
    "TotalMiles": 1480.78,
    "TaxableMiles": 1480.78,
    "MPG": 0.0,
    "TaxPaidGallons": 0.0
}
}

```

## 2.17- For DVIR Report

### 2.17.1- Get DVIR Reports By Client

**Method Call name:** /DVIR/v2.0/GetDVIRReportsForClient

**Functionality:** Will return the DVIR Reports for one specific Driver for a specific Date Time range for an specific Vehicle Condition, using Tractor and Trailer Numbers, of this specific Client

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>HOSDriverId</b>	Integer	✓	Unique Driver Id that identifies the Driver of the Client specified	-if null or empty then will use Default value 0
<b>FromEpochTimestamp</b>	Long	✓	Start Time Stamp in Epoch Value to get the Report	-Default value is 0 -Must be a valid Epoch Time value
<b>EndEpochTimestamp</b>	Long	✓	End Time Stamp in Epoch Value to get the Report	-Default value is 0 -Must be a valid Epoch Time value
<b>TractorNumber</b>	String		Tractor Number that appears on the Report	
<b>TrailerNumber</b>	String		Trailer Number that appears on the Report	
<b>VehicleCondition</b>	Integer	✓	DVIR Vehicle Condition that appears on the Report	-if null or empty then it will use Default value that is 0 -Must be only valid DVIR Vehicle Condition Status between -1 and 3: (See Appendix 1, 1.21- DVIR Vehicle Condition Codes)

#### Sample JSON:

```

{
  "HOSClientApiKey": "FBrDkbv1g333ae3EIf526RPn",
  "HOSDriverId": 346,
  "FromEpochTimestamp": 1646960800,
  "EndEpochTimestamp": 1647960800,
  "TractorNumber": "1234567890",
  "VehicleCondition": -1,
}

```

## Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include the List of DVIR Reports for the Date Time Requested for this specific Driver and Client. It will have a specific structure (See Appendix 2, 2.21- DVIRReportDTO)

### Sample JSON:

-After an invalid input data sent:

```
{
  "code": 203,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data": [
    {
      "DVIRReportId": 509,
      "HOSDriverId": 346,
      "DriverName": "Carlos",
      "HOSUserName": "cccc",
      "Timestamp": 1647104367,
      "PDFFileName": "report_normal_2022-03-12_11_59_27_17.pdf",
      "PDFFileNameFull": "",
      "TractorNumber": "1234567890",
      "TrailerNumber": "Trailer1",
      "VehicleCondition": 2
    },
    {
      "DVIRReportId": 510,
      "HOSDriverId": 346,
      "DriverName": "Carlos",
      "HOSUserName": "cccc",
      "Timestamp": 1647363995,
      "PDFFileName": "report_normal_2022-03-15_01_06_35_17.pdf",
      "PDFFileNameFull": "",
      "TractorNumber": "1234567890",
      "TrailerNumber": "Trailer1",
      "VehicleCondition": 2
    },
    {
      "DVIRReportId": 511,
      "HOSDriverId": 346,
      "DriverName": "Carlos",
      "HOSUserName": "cccc",

```

```

        "Timestamp": 1647368923,
        "PDFFileName": "report_normal_2022-03-
15_02_28_43_17.pdf",
        "PDFFileNameFull": "",
        "TractorNumber": "1234567890",
        "TrailerNumber": "Trailer1",
        "VehicleCondition": 2
    },
    {
        "DVIRReportId": 512,
        "HOSDriverId": 346,
        "DriverName": "Carlos",
        "HOSUserName": "cccc",
        "Timestamp": 1647368993,
        "PDFFileName": "report_normal_2022-03-
15_02_29_53_17.pdf",
        "PDFFileNameFull": "",
        "TractorNumber": "1234567890",
        "TrailerNumber": "Trailer1",
        "VehicleCondition": 2
    }
]
}

```

### 2.17.2- Download DVIR Report By Client

**Method Call name:** /DVIR/v2.0/DownloadDVIRReportForClient

**Functionality:** Will return the DVIR Report file content for one specific DVIR Report Identifier and File Name of this specific Client

**Type of Method:** Get

#### Input Parameters

Field	Type	Required	Description	Validations
<b>HOSClientApiKey</b>	String	✓	Unique Key that identifies the Client	-Not null or empty -Must have a value as a valid and existing Client Key in our system
<b>DVIRReportId</b>	Integer	✓	Unique DVIR Report Id that identifies the Report of the Client specified	-if null or empty then will use Default value 0 -Must be an existing Report Identifier
<b>FileName</b>	String	✓	Unique DVIR Report File Name of the Client specified	-Must be an existing Report File Name for this DVIR Report Identifier -If File Name is correct in the Database but is not present on the default path on the Server then the response will return error code 208

#### Sample JSON:

```

{
  "HOSClientApiKey": "FBrDkbv2233ae3EIf526RPn",
  "DVIRReportId": 5110,
  "FileName": "report_normal_2022-03-12_11_59_27_17.pdf",
}

```

## Output Parameters

Field	Type	Description
<b>code</b>	Integer	This response code will define the result of the process as well if an error happened validating the input data (See Appendix 1, 1.1- API Response Codes)
<b>data</b>	JSON	-Will return Null if any error happened which means that code value is different of 1 -Will include the DVIR Report Data File in PDF format for the specified DVIR Report ID and File Name requested of this specific Client in a JSON format. It will have a specific structure (See Appendix 2, 2.8- ExportFileDTO)

### Sample JSON:

-After an invalid input data sent:

```
{
  "code": 204,
  "data": null
}
```

-After a valid input data sent:

```
{
  "code": 1,
  "data":
  {
    "FileName": "report_normal_2022-03-12_11_59_27_17.pdf",
    "File": (Array Of Bytes)
  }
}
```

## Appendix 1: Codifiers used for input and output data

### 1.1- API Response Codes

Code	Response
0	UNKNOWN_ERROR
1	OK
2	HOSCLIENT_API_KEY_MISSING
3	HOSCLIENT_MISSING
4	HOSCLIENT_API_KEY_EXIST
5	HOSCLIENT_DUPLICATED
6	HOSRESELLER_API_KEY_MISSING
7	HOSCLIENT_API_KEY_INVALID
8	HOSDRIVER_USERNAME_EXIST
9	HOSDRIVER_LICENSE_STATE_INVALID
10	HOSDRIVER_USERNAME_INVALID_LENGTH
11	HOSDRIVER_MISSING
12	HOSDRIVER_LICENSE_NUMBER_INVALID_LENGTH
13	HOSDRIVER_DUPLICATED
14	HOSCLIENT_CAN_NOT_ACTIVATE_DRIVER
15	HOSCLIENT_CARRIER_ID_INVALID
16	HOSCLIENT_CARRIER_NAME_INVALID_LENGTH
17	HOSCLIENT_CARRIER_ADDRESS_EMPTY
18	HOSDRIVER_NAME_INVALID_LENGTH
19	HOSDRIVER_LAST_NAME_INVALID_LENGTH
20	HOSNOTIFICATION_NAME_MISSING
21	HOSNOTIFICATION_INVALID_EMAIL_FORMAT
22	HOSNOTIFICATION_ITEMS_MISSING
23	HOSASSET_NUMBER_INVALID_LENGTH
24	HOSASSET_VIN_INVALID_LENGTH
25	HOSASSET_VIN_DUPLICATED
26	HOSASSET_PLATE_DUPLICATED
27	HOSASSET_NUMBER_DUPLICATED
28	INSERTION_UNAUTHORIZED_PARTNER
29	HOSASSET_CHANGE_NOT_ALLOWED
30	INVALID_DATE_RANGE
31	HOSASSET_PLATE_INVALID_LENGTH
32	HOSASSET_MISSING
33	HOSJURISDICTION_INVALID
34	HOSRULESET_ID_INVALID
35	HOSDRIVER_EXEMPTION_REASON_REQUIRED
36	HOSDRIVER_LICENSE_NUMBER_DUPLICATED
37	HOSHOMEBASE_REQUIRED
38	HOSCLIENT_SUPPORT_USERNAME_EXIST
39	HOSCLIENT_DOTNUMBER_FMCSA_NOT_EXIST
40	HOSRESELLER_CAN_NOT_ACTIVATE_DTC
41	HOSCLIENT_SUPPORT_PASSWORD_EMPTY
42	HOSRESELLER_API_KEY_INVALID
43	HOSDRIVER_WRONG_AUTHENTICATION
44	HOSCLIENT_EXTERNAL_CLIENT_ID_INVALID
45	HOSCLIENT_EXTERNAL_CLIENT_ID_DUPLICATED
46	HOSCLIENT_ID_MISSING
47	HOSCLIENT_ID_INVALID
48	HOSDRIVER_EXTERNAL_DRIVER_ID_MISSING
49	HOSDRIVER_EXTERNAL_DRIVER_ID_INVALID
50	HOSDRIVER_ID_MISSING
51	HOSDRIVER_HOSDRIVER_ID_INVALID
52	HOSCLIENT_CARRIER_ID_MISSING
53	HOSCLIENT_SUPPORT_USERNAME_INVALID
54	HOSCLIENT_CARRIER_COUNTRY_INVALID
55	HOSCLIENT_CARRIER_TIME_ZONE_INVALID

56	HOSCLIENT_CARRIER_ENGINE_DIAGNOSTIC_CODE_INVALID
57	HOSCLIENT_CARRIER_FORCE_ECM_CONNECTION_INVALID
58	HOSCLIENT_CARRIER_FORCE_ASSET_SELECTION_INVALID
59	HOSCLIENT_CARRIER_CANADA_ENABLED_INVALID
60	HOSPARTNER_ID_MISSING
61	HOSDRIVER_EXTERNAL_DRIVER_ID_DUPLICATED
62	HOSDRIVER_PASSWORD_EMPTY
63	HOSASSET_ID_INVALID
64	HOSASSET_INVALID_TYPE
65	HOSASSET_VIN_INVALID
66	HOSHOMEBASE_ID_MISSING
67	HOSHOMEBASE_WITH_DRIVERS
68	HOSHOMEBASE_INVALID
69	LATLONG_COORDINATES_INVALID
70	HOSASSET_ECMID_INVALID
71	HOSASSET_ADDITIONALECMID_INVALID
72	HOSASSET_ECMID_MISSING
73	HOSSHIPMENT_ID_INVALID
74	HOSSHIPMENT_MISSING
75	HOSDRIVER_ID_INVALID
76	HOSSHIPMENT_DATA_IS_NOT_UPDATED
77	HOSSHIPMENT_INVALID_STARTEND_TIME_RANGE
78	HOSSHIPMENT_INVALID_PICKUPDELIVERY_TIME_RANGE
79	HOSSHIPMENTNUMBER_MISSING
80	HOSSHIPMENTNUMBER_INVALID
81	HOSSHIPMENT_PICKUPEMAIL_INVALID
82	HOSSHIPMENT_DELIVERYEMAIL_INVALID
83	HOSLOGBOOK_NO_DATA_AVAILABLE
84	FMCSARESULT_ERROR
85	HOSCLIENT_NO_DRIVER_AVAILABLE
86	HOSCLIENT_NO_ASSET_AVAILABLE
87	HOSCLIENT_NO_HOMEBASE_AVAILABLE
88	HOSCLIENT_NO_SHIPMENT_AVAILABLE
89	HOSUNIDENTIFIEDLOGS_TRACTOR_NUMBER_MISSING
90	HOSUNIDENTIFIEDLOGS_NO_DATA_AVAILABLE
91	HOSEVENT_STATUS_INVALID
92	HOSRESELLER_CAN_NOT_ENABLE_CANADA
93	HOSUNIDENTIFIEDLOGS_TRACTOR_NUMBER_INVALID
94	HOSEVENT_ORIGIN_INVALID
95	HOSDRIVER_DRIVER_STATUS_INVALID
96	HOSLOGEDITS_NO_DATA_AVAILABLE
97	HOSLOGEDITS_NO_DATA_AVAILABLE
98	HOSUNIDENTIFIEDLOGS_NO_VEHICLE_DATA_AVAILABLE
99	HOSVIOLATION_NO_DATA_AVAILABLE
100	HOSRECORD_NO_DATA_AVAILABLE
101	HOSEVENT_TYPE_INVALID
102	HOSEVENT_CODE_INVALID
103	FMCSARESPONSES_NO_DATA_AVAILABLE
104	DTCREPORT_NO_DATA_AVAILABLE
105	DTCREPORT_VEHICLE_STATUS_INVALID
106	DRIVER_DUTY_REPORT_NO_DATA_AVAILABLE
107	HOSCLIENT_DISTANCE_UNIT_CODE_INVALID
108	HOSCLIENT_FUEL_UNIT_CODE_INVALID
109	HOSCLIENT_ACTIVATE_DRIVER_INVALID
110	HOSCLIENT_ECM_AUTOMATIC_INVALID
111	HOSEVENT_ID_INVALID
112	HOSEVENT_REMARKS_INVALID
113	HOSRESELLER_CAN_NOT_ENABLE_CANADA_USING_API
114	HOSRESELLER_CAN_NOT_CHANGE_ENABLE_CANADA
115	HOSEVENT_CANNOT_BE_EDITED
116	HOSEVENT_LOCATION_INVALID
117	HOSEVENT_ANOTHER_EVENT_HAS_SAME_DATE



118	HOSEVENT_NO_PREVIOUS_EVENT
119	HOSEVENT_SAME_DUTY_STATUS_AS_PREVIOUS_OR_NEXT
120	HOSEVENT_DRIVING_AUTOMATIC_BEFORE_AND_TIME_CANNOT_BE_REDUCED
121	HOSEVENT_SAME_DUTY_STATUS_AFTER_STATUS_BEING_CHANGED
122	HOSEVENT_NO_EVENT_AFTER
123	HOSDRIVER_IS_ACTIVE_INVALID
124	HOSDRIVER_PERSONAL_USE_INVALID
125	HOSDRIVER_YARD_MOVE_INVALID
126	HOSDRIVER_WIFI_INVALID
127	HOSDRIVER_DISTANCE_UNIT_CODE_INVALID
128	HOSDRIVER_FUEL_UNIT_CODE_INVALID
129	HOSDRIVER_STARTING_24H_TIME_INVALID
130	HOSDRIVER_TIME_ZONE_CODE_INVALID
131	HOSDRIVER_EXEMPTION_INVALID
132	HOSCLIENT_CARRIER_CHANGE_ACTIVATE_DRIVER_INVALID
133	HOSCLIENT_CARRIER_CHANGE_CANADA_ENABLE_INVALID
134	HOSDRIVER_ALLOW_DRIVER_EXEMPTION_SELECTION_INVALID
135	HOSDRIVER_LIST_MISSING
136	HOSDRIVER_LIST_INVALID
137	HOSHOMEBASE_ID_INVALID
138	HOSHOMEBASE_ID_NO_CHANGES
139	HOSHOMEBASE_IS_DEFAULT_HOMEBASE
140	HOSCLIENT_ID_AND_EXTERNAL_CLIENT_ID_MISSING
141	HOSDRIVER_ID_AND_EXTERNAL_DRIVER_ID_MISSING
142	HOSASSET_NUMBER_MISSING
143	HOSASSET_REGISTRATION_STATE_MISSING
144	HOSASSET_REGISTRATION_STATE_INVALID
145	HOSCLIENT_ACTIVATE_ASSET_INVALID
146	HOSHOMEBASE_NAME_MISSING
147	HOSHOMEBASE_ADDRESS_MISSING
148	HOSHOMEBASE_TIME_ZONE_INVALID
149	HOSHOMEBASE_DEFAULT_HOME_INVALID
150	HOSLOGBOOK_ACTION_INVALID
151	HOSLOGBOOK_EMAILS_MISSING
152	HOSLOGBOOK_EMAILS_INVALID
153	HOSLOGBOOK_FMCSA_EXPORT_TEST_INVALID
154	HOSNOTIFICATION_NO_DATA_AVAILABLE
155	HOSNOTIFICATION_ID_INVALID
156	HOSNOTIFICATION_ID_MISSING
157	HOSNOTIFICATION_MISSING
158	HOSNOTIFICATION_TYPE_MISSING
159	HOSNOTIFICATION_TYPE_INVALID
160	HOSASSET_NUMBER_INVALID
161	HOSASSET_LIST_INVALID
162	HOSNOTIFICATION_EMAILS_MISSING
163	HOSNOTIFICATION_EMAILS_INVALID
164	HOSASSET_LIST_MISSING
165	HOSLOGBOOK_TRACTOR_NUMBER_INVALID
166	HOSCLIENT_EXTERNAL_CLIENT_ID_MISSING
167	HOSRESELLER_CAN_NOT_ACTIVATE_ENHANCED_IFTA
168	HOSRESELLER_CAN_NOT_ACTIVATE_WORK_ORDER
169	HOSDRIVER_HOSUSERNAME_CANNOT_BE_CHANGED
170	HOSASSET_TRACTOR_PROPERTY_FUEL_TYPE_INVALID = 170
171	HOSASSET_TRACTOR_PROPERTY_VIN_INVALID_LENGTH
172	HOSASSET_TRACTOR_PROPERTY_VIN_INVALID
173	HOSASSET_TRACTOR_PROPERTY_MAKE_MISSING
174	HOSASSET_TRACTOR_PROPERTY_MODEL_MISSING
175	HOSASSET_TRACTOR_PROPERTY_VIN_MISSING
176	HOSASSET_TRACTOR_PROPERTY_TYPE_MISSING
177	HOSASSET_TRACTOR_PROPERTY_BODY_CLASS_MISSING
178	HOSASSET_TRACTOR_PROPERTY_YEAR_INVALID
179	HOSASSET_TRACTOR_PROPERTY_GVWR_MISSING

180	HOSASSET_TRACTOR_PROPERTY_GVWR_INVALID
181	HOSASSET_TRACTOR_PROPERTY_YEAR_MISSING
182	HOSASSET_TRACTOR_PROPERTY_FUEL_TYPE_MISSING
183	HOSEVENT_CARRIER_EDIT_WITH_SAME_DATE_TIME
184	HOSEVENT_NO_STATUS_OR_TIME_CHANGE_APPLIED
185	HOSEVENT_CAN_NOT_BE_EDITED_EVENT_CREATED_WHEN_VEHICLE_MOVED
186	HOSEVENT_SAME_DUTY_STATUS_BEFORE_STATUS_BEING_CHANGED
187	HOSEVENT_CAN_NOT_BE_DELETED
188	HOSRESELLER_CAN_NOT_DEACTIVATE_ENHANCED_IFTA
189	HOSRESELLER_CAN_NOT_DEACTIVATE_WORK_ORDER
190	HOSCLIENT_CAN_NOT_CHANGE_ENHANCED_IFTA_ENABLED
191	HOSCLIENT_CAN_NOT_CHANGE_WORK_ORDER_ENABLED
192	HOSCLIENT_EXTERNAL_CLIENT_ID_OR_HOSPARTNER_ID_INVALID
193	HOSEVENT_SAME_STATUS_CAN_NOT_BE_INSERTED
194	HOSEVENT_SAME_DATE_TIME_CAN_NOT_BE_INSERTED
195	HOSEVENTS_COUNT_INVALID
196	HOSEVENTS_MISSING
197	HOSEVENT_DRIVER_STATUS_INVALID
198	HOSEVENT_DRIVER_STATUS_MISSING
199	HOSEVENT_LOCATION_MISSING
200	HOSCLIENT_CARRIER_PROPERTIES_IN_USE_INVALID
201	HOSEVENT_TIMESTAMP_MISSING
202	HOSEVENT_TIMESTAMP_INVALID
203	DVIR_REPORT_ID_MISSING
204	DVIR_REPORT_ID_INVALID
205	DVIR_REPORT_HOSDRIVER_ID_INVALID
206	FILENAME_MISSING
207	FILENAME_INVALID
208	FILENAME_NOT_AVAILABLE

### 1.2- Time Zone Codes

Code	Value
0	Eastern Time
1	Central Time
2	Mountain Time
3	Pacific Time
4	Alaskan Time
5	Hawaiian Time
6	Atlantic Time
7	Arizona Time

### 1.3- Carrier Country Codes

Code	Value
1	USA
2	Canada
3	Mexico

### 1.4- Units Codes

Code	Value
1	Miles/gallons
2	km/liters

### 1.5- Ruleset Codes

Code	Value
0	USA_60H
1	USA_70H
2	CALIFORNIA_80H
3	OILFIELD_60H
4	OILFIELD_70H
5	CANADA_70H
6	CANADA_120H
7	TEXAS_70H
8	MEXICO
9	PASSENGER_60H
10	PASSENGER_70H
11	FLORIDA_70H
12	FLORIDA_80H
13	ASPHALT_60H
14	ASPHALT_70H
15	CALIFORNIA_TANKER_60H
16	TEXAS_OILFIELD_70H
17	ALASKA_70H
18	ALASKA_80H

### 1.6- States Codes

"AL", "AK", "AR", "AZ", "CA", "CO", "CT", "DC", "DE", "FL", "GA", "HI", "IA", "ID", "IL", "IN", "KS", "KY", "LA", "MA", "MD", "ME", "MI", "MN", "MO", "MS", "MT", "NC", "ND", "NE", "NH", "NJ", "NM", "NV", "NY", "OH", "OK", "OR", "PA", "RI", "SC", "SD", "TN", "TX", "UT", "VA", "VT", "WA", "WI", "WV", "WY", "AB", "BC", "MB", "NB", "NF", "NS", "NT", "ON", "PE", "QC", "SK", "YT", "AG", "BN", "BS", "CH", "CI", "CL", "CP", "CS", "DF", "DG", "GE", "GJ", "HD", "JA", "MC", "MR", "MX", "NA", "NL", "OA", "PU", "QE", "QI", "SI", "SL", "SO", "TA", "TB", "TL", "VC", "YU", "ZA", "OT"

### 1.7- Jurisdiction Codes

Code	Value
1	Canada South
2	Canada North
3	USA

### 1.8- 24 hours Period Starting Time Codes

Code	Value
0	Midnight
1	Current time

### 1.9- Type of Assets Codes

Code	Value
0	Tractor
1	Trailer

### 1.10- Languages Codes

Code	Value
1	ES
2	EN
3	FR

### 1.11- Event Statuses Codes

Code	Value
------	-------

1	Active
2	Assumed
3	Requested
4	Rejected

### 1.12- Driver Status Codes

Code	Value
0	Inactive
1	Active

### 1.13- Event Origin Codes

Code	Value
1	Automatically Recorded
2	Edited or Entered by Driver
3	Edit Requested by Other than Driver
4	Assumed from Unidentified Driver Profile

### 1.14- Event Type Codes

Code	Value
1	A Change in Driver Duty Status
2	An Intermediate Log
3	Personal Use or Yard Move
4	Driver's Certification of Records
5	Driver's Login/Logout
6	Engine On/Off
7	Malfunctions/Diagnostics

### 1.15- Event Codes

Event Type Code	Event Type Description	Event Code	Event Code Description
1	A change in driver's duty status	1	Driver's duty status changed to "Off Duty"
1	A change in driver's duty status	2	Driver's duty status changed to "Sleeper Berth"
1	A change in driver's duty status	3	Driver's duty status changed to "Driving"
1	A change in driver's duty status	4	Driver's duty status changed to "On-duty not driving"
2	An intermediate log	1	Intermediate log with conventional location precision
2	An intermediate log	2	Intermediate log with reduced location precision
3	A change in driver's indication of authorized personal use of CMV (Carrier Motor Vehicle) or yard moves	1	Driver indicates "Authorized Personal Use of CMV"
3	A change in driver's indication of authorized personal use of CMV (Carrier Motor Vehicle) or yard moves	2	Driver indicates "Yard Moves"
3	A change in driver's indication of authorized personal use of CMV (Carrier Motor Vehicle) or yard moves	0	Driver indication for Personal Conveyance, Yard Move, and Work Time Extension cleared
4	A driver's certification/recertification of records	1	Driver's first certification of a daily record
4	A driver's certification/recertification of records	n (1 to 9)	Driver's [nth] certification of a daily record (when recertification necessary). The "n" value is an integer between 1 and 9. If more than 9 certifications are needed, use 9 for each new recertification record

5	A driver's login/logout activity	1	Authenticated driver's ELD login activity
5	A driver's login/logout activity	2	Authenticated driver's ELD logout activity
6	CMV engine power-up/ shut-down activity	1	Engine power-up with conventional location precision
6	CMV engine power-up/ shut-down activity	2	Engine power-up with reduced location precision
6	CMV engine power-up/ shut-down activity	3	Engine shut-down with conventional location precision
6	CMV engine power-up/ shut-down activity	4	Engine shut-down with reduced location precision
7	A malfunction or data diagnostic detection occurrence	1	An ELD malfunction logged
7	A malfunction or data diagnostic detection occurrence	2	An ELD malfunction cleared
7	A malfunction or data diagnostic detection occurrence	3	A data diagnostic event logged
7	A malfunction or data diagnostic detection occurrence	4	A data diagnostic event cleared

### 1.16- Engine Status Codes

Code	Value
0	Inactive
1	Active

### 1.17- Notification Type Codes

Code	Value
1	Unidentified Driving
2	HOS Violation
3	ELD Malfunction
4	Driving without engine data
5	DVIR Non Compliance

### 1.18- Driver Status Codes

"OFF", "SB", "D", "ON", "ON-WT", "PS", "PU", "YM"

### 1.19- Fuel Type Codes

Code	Value
1	GASOLINE
2	DIESEL
3	GASOHOL
4	PROPANE
5	LNG
6	CNG
7	ETHANOL
8	METHANOL
9	E85
10	M85
11	A55
12	BIODIESEL

### 1.20- GVWR String Values

String Value
"Class 1: 0 – 6,000 lb (0 – 2,722 kg)"
"Class 2: 6,001 – 10,000 lb (2,722 – 4,536 kg)"
"Class 3: 10,001 – 14,000 lb (4,536 – 6,350 kg)"
"Class 4: 14,001 – 16,000 lb (6,351 – 7,257 kg)"

"Class 5: 16,001 – 19,500 lb (7,258 – 8,845 kg)"
"Class 6: 19,501 – 26,000 lb (8,846 - 11,793 kg)"
"Class 7: 26,001 - 33,000 lb (11,794 – 14,969 kg)"
"Class 8: 33,001 lb and above (14,969 kg and above)"

### 1.21- DVIR Vehicle Condition Codes

Code	Value
-1	NONE
0	SATISFACTORY
1	DEFECTS_CORRECTED
2	DEFECTS_NOT_NEED_CORRECTED
3	DEFECTS_NEED_CORRECTED

## Appendix 2: Common structures used for input and output data

### 2.1- BasicHOSClientDTO2

Field	Type	Description
HOSClientId	Integer	HOS Client ID, unique value
ExternalClientId	Integer	Client ID in Reseller External System
CarrierId	String	Carrier ID
CarrierName	String	Carrier Name
CarrierAddress	String	Carrier Address
TimeZoneCode	Integer	Code from Time Zone Codifier (See Appendix 1, 1.2- Time Zone Codes)
CarrierCountry	Integer	Code from Carrier Country Codifier (See Appendix 1, 1.3- Carrier Country Codes)
ApiKey	String	Unique Key that identifies this Client
DistanceUnitCode	Integer	Code from Unit Codifier (See Appendix 1, 1.4- Units Codes)
FuelUnitCode	Integer	Code from Unit Codifier (See Appendix 1, 1.4- Units Codes)
DTCCodes	Integer	Activate Engine Diagnostic
ActivateDriver	Integer	Allow client to activate drivers
ECMAutomatic	Integer	Activate Automatic Driving immediately after vehicle moves
ForceAssetSelection	Integer	Drivers must use portal assets list
ForceECMLinkConnection	Integer	Force Asset/ECM-device connection
SupportUserName	String	Support UserName
SupportPassword	String	Support Password
CanadaEnabled	Integer	Enable Canada Compliance

### 2.2- HOSDriverDTO

Field	Type	Description
HOSDriverId	Integer	HOS Driver ID, unique value
ExternalDriverId	Integer	Driver ID in Reseller or Client External System
Name	String	Driver Name
LastName	String	Driver LastName
HOSUserName	String	HOS Driver UserName
HOSPassword	String	HOS Driver Password
IsActive	Integer	Flag to identify if Driver is Active or not
HOSRuleSetId	Integer	Code from Rule Set (See Appendix 1, 1.5- RuleSet Codes)
PersonalUse	Integer	Enable Personal Use
YardMove	Integer	Enable Yard Move
Exemption	Integer	Indicates On Exception mode
LicenseState	String	2 characters long State Code of Driver License (See Appendix 1, 1.6- States Codes)
LicenseNumber	String	Driver License Number
Wifi	Integer	Indicates Wifi connection Allowed
DistanceUnitCode	Integer	Code from Unit Codifier (See Appendix 1, 1.4- Units Codes)
FuelUnitCode	Integer	Code from Unit Codifier (See Appendix 1, 1.4- Units Codes)
Starting24HTime	Integer	Code from 24Hours Starting Time (See Appendix 1, 1.8 24 hours Period Starting Time Codes)
TimeZoneCode	Integer	Code from Time Zone Codifier (See Appendix 1, 1.2- Time Zone Codes)
AllowDriverExemptionSelection	Integer	Indicates if Driver can change Exemption Selection from Phone
JurisdictionCode	Integer	Code from Jurisdiction Codifier (See Appendix 1, 1.7- Jurisdiction Codes)
ExemptionReason	String	Reason for Exemption

TakeDVIRPhotoEnabled	Integer	Flag to indicate if Driver can take DVIR photo
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### 2.3- HOSAssetDTO

Field	Type	Description
AssetId	Integer	HOS Asset ID, unique value
HOSClientId	Integer	Client ID where this Asset belong to
Number	Integer	Asset Number
VIN	String	Asset VIN
Plate	String	Asset Plate
RegistrationState	String	State where the Asset is registered
Description	String	Description of the Asset
Type	Integer	Type of Asset (Tractor or Trailer)
ECMId	String	MAC of Primary ECM device
AdditionalECMId	String	MAC of additional ECM device
Active	Integer	Flag to identify if Asset is Active or not

### 2.4- HOSHomeBaseDTO

Field	Type	Description
HOSHomeBaseId	Integer	HOS Home Base ID, unique value
HOSClientId	Integer	Client ID where this Home Base belong to
Name	String	Home Base Name
Address	String	Home Base Address
Latitude	Double	Home Base Latitude
Longitude	Double	Home Base Longitude
DefaultHome	Integer	Flag to identify if this is the Default Home Base for this Client. Only one Home Base into Home Base List of this Client can be the default (set to 1)
TimeZoneCode	Integer	Code from Time Zone Codifier (See Appendix 1, 1.2- Time Zone Codes)

### 2.5- BasicHOSShipmentDTO

Field	Type	Description
HOSShipmentId	Integer	HOS Shipment ID, unique value
HOSClientId	Integer	Client ID where the Driver related with this Shipment belongs to
CarrierName	String	Carrier Name
CarrierAddress	String	Carrier Address
TractorNumber	String	Tractor Number
TractorVIN	String	Tractor VIN
LastKnownLocation	String	Last Know Location of the Tractor
HOSDriverId	Integer	Driver ID linked to this Shipment
DriverName	String	Driver Name
CoDriverName	String	CoDriver Name
StartTimeStamp	Long	Start Date and Time
ShipperName	String	Shipper Name
ShipmentNumber	String	Shipment Number
Commodity	String	Commodity
Description	String	Description or Comments of this Shipment
LastModified	Long	Date Time of Last Modification of this Shipment
PickupTimestamp	Long	Pickup Date and Time
PickupEmail	String	Pickup email
PickupBay	String	Pickup Bay
PickupParking	String	Pickup Parking
PickupNotes	String	Pickup Notes
DeliveryTimestamp	Long	Delivery Date and Time
DeliveryBay	String	Delivery Bay
DeliveryEmail	String	Delivery Email
DeliveryParking	String	Delivery Parking
DeliveryNotes	String	Delivery Notes



## 2.6- HOSReportVO

Field	Type	Description
RecordDate	String	Date of Record
DotNumber	String	DOT Number
CarrierName	String	Carrier Name
CarrierAddress	String	Carrier Address
HomeBaseAddress	String	Home Base Address
TimeZoneld	Integer	Time Zone Code (See Appendix 1, 1.2- Time Zone Codes)
DriverName	String	Driver Full Name
DriverUserName	String	Driver username
DriverLicense	String	Drive License
DriverLicenseState	String	2 characters long State Code of Driver License (See Appendix 1, 1.6- States Codes)
RuleSetId	Integer	Code from Rule Set (See Appendix 1, 1.5- RuleSet Codes)
CoDriverName	String	Co-Driver Full Name
CoDriverUserName	String	Co-Driver username
TractorNumber	String	Tractor Number
TractorVIN	String	Tractor VIN
TractorPlate	String	Tractor Plate
TrailerNumber	String	Trailer Number
TrailerPlate	String	Trailer Plate
ShippingId	String	Shipment Id
StartOdometer	Integer	Odometer Start Reading
EndOdometer	Integer	Odometer End Reading
DistanceTraveled	Integer	Distance Traveled
DistanceUnit	String	Description from Unit Codifier (See Appendix 1, 1.4- Units Codes)
DistanceUnitCode	Integer	Code from Unit Codifier (See Appendix 1, 1.4- Units Codes)
MalFunctions	Integer	MalFunction code
UnidentifiedEvents	Integer	Unidentified Event code
DrivingAmount	Double	Total Time Driving
OnDutyAmount	Double	Total Time on Duty
OffDutyAmount	Double	Total Time off duty
SleeperBerthAmount	Double	Total Time Sleeping
Points	HOSReportPointVO	List Of Points (See Appendix 2, 2.6.1- HOSReportPointVO)
PreviousEvent	HOSReportPointVO	Previous event point (See Appendix 2, 2.6.1- HOSReportPointVO)
NextEvent	HOSReportPointVO	Next event point (See Appendix 2, 2.6.1- HOSReportPointVO)

### 2.6.1- HOSReportPointVO

Field	Type	Description
HOSEventId	Integer	Unique identifier of Event
EpochTimestamp	Long	Date Time in Epoch format
Timestamp	DateTime	Date Time in DateTime format
HourOfDay	Integer	Hour of the day
OriginalDutyStatus	String	Previous status
Status	Integer	New Status
EventOrigin	Integer	Code of Event Origin
HOSDriverName	String	Driver Full Name
HOSUserName	String	Driver username
HOSCoDriverName	String	Co-Driver Full Name
HOSCoUserName	String	Co-Driver username
TractorNumber	String	Tractor Number
TrailerNumber	String	Trailer Number
TractorVIN	String	Tractor VIN
Odometer	Integer	Odometer Reading
DrivenMiles	Double	Driven Miles
EventDuration	String	Event duration

Location	String	Location
EpochVerifiedTimestamp	Long	Date Time verified on Epoch format
PointType	Integer	Point Type code
Remark	String	Remark comments
ViolationText	String	Violation comments

## 2.7- HOSLogBookReportDTO

Field	Type	Description
Header	HOSLogbookHeaderDTO	LogBook Report Header in HOSLogbookHeaderDTO format (See Appendix 2, 2.7.1- HOSLogBookHeaderDTO)
Points	List Of HOSLogbookPointDTO	List Of Points (See Appendix 2, 2.6.1- HOSLogbookPointDTO)
DrivingAmount	Integer	Total Time Driving
OnDutyAmount	Integer	Total Time On Duty
OffDutyAmount	Integer	Total Time Off Duty
SleeperBerthAmount	Integer	Total Time Sleeping
HOSViolations	List Of HOSLogbookViolationDTO	List of Violations (See Appendix 2, 2.7.3- HOSLogbookViolationDTO)
HOSEvents	HOSLogbookEventsDTO	LogbookEvents Lists (See Appendix 2, 2.7.4- HOSLogbookEventsDTO)
HOSRemarks	List Of HOSLogbookRemarkDTO	List of Remarks (See Appendix 2, 2.7.5- HOSLogbookRemarkDTO)
DriversCMV	List Of HOSAppDriverCMVDTO	List of Driver CMVs (See Appendix 2, 2.7.6- HOSAppDriverCMVDTO)
PreviousEvent	HOSLogbookEventDTO	Previous Event in HOSLogbookEventDTO format (See Appendix 2, 2.7.7- HOSLogbookEventDTO)
NextEvent	HOSLogbookEventDTO	Next Event in HOSLogbookEventDTO format (See Appendix 2, 2.7.7- HOSLogbookEventDTO)

### 2.7.1- HOSLogBookHeaderDTO

Field	Type	Description
RecordDate	String	Date of Record
DayStartingTime	String	Starting Time
CurrentLocation	String	Current Location
UTCTimeZoneOffset	String	Distance to UTC Time Zone
Latitude	String	Latitude
Longitude	String	Longitude
FileComment	String	File Comments
CurrentDatetime	String	Current Date Time
DriverLastName	String	Driver Last Name
DriverName	String	Driver First Name
DriverUserName	String	Driver username
ExemptDriverStatus	String	Exempt Driver status
DriverLicenseState	String	2 characters long State Code of Driver License (See Appendix 1, 1.6- States Codes)
CoDriverLastName	String	Co-Driver Last Name
CoDriverName	String	Co-Driver First Name
CoDriverUserName	String	Co-Driver username
TractorList	List Of HOSLogbookCMVDTO	List of CMV LogBook in HOSLogbookCMVDTO format (See Appendix 2, 2.7.1.1- HOSLogbookCMVDTO)
CurrentTotalDistance	Integer	Current Total Distance
CurrentTotalEngineHours	Double	Current Total Engine Hours
TrailerNumber	String	Trailer Number
CarrierName	String	Carrier Name
CarrierAddress	String	Carrier Address
HomeBaseAddress	String	Home Base Address
OperatingZone	Integer	Operation Zone
Cycle	Integer	Cycle
TotalHoursShift	String	Shift total of hours
TotalHoursCycle	String	Cycle total of hours
RemainingHoursCycle	String	Cycle Remaining Hours

OffDutyTimeDeferral	String	Time Off Duty
DataDiagnosticList	List Of HOSLogbookDiagMalfunctionDTO	List of Malfunctions Data in HOSLogbookDiagMalfunctionDTO format (See Appendix 2, 2.7.1.2- HOSLogbookDiagMalfunctionDTO)
UnidentifiedDrivingRecords	Integer	Total driving records unidentified
MalfunctionList	List Of HOSLogbookDiagMalfunctionDTO	List of Malfunctions in HOSLogbookDiagMalfunctionDTO format (See Appendix 2, 2.7.1.2- HOSLogbookDiagMalfunctionDTO)
ELDIdentifier	String	ELD identifier
ELDProvider	String	ELD provider
ELDCertificationId	String	ELD certification identifier
ELDAuthenticationValue	String	ELD Authentication Value

### 2.7.1.1- HOSLogbookCMVDTO

Field	Type	Description
Number	String	CMV Number
VIN	String	VIN Number
StartOdometer	Integer	Odometer initial reading
EndOdometer	Integer	Odometer final reading
DistanceToday	Integer	Today Total distance

### 2.7.1.2- HOSLogbookDiagMalfunctionDTO

Field	Type	Description
code	String	Malfunction code
status	Integer	Status code

### 2.7.2- HOSLogbookPointDTO

Field	Type	Description
HourOfDay	Integer	Hour of the Day
EpochTimestamp	Long	Date Time in Epoch format
Status	Integer	Status code
PointType	Integer	Point Type code
Id	Integer	Unique identifier of Point

### 2.7.3- HOSLogbookViolationDTO

Field	Type	Description
HOSViolationId	Integer	Unique identifier of Violation
Epochtimestamp	Long	Date Time in Epoch format
ViolationText	String	Violation description

### 2.7.4- HOSLogbookEventsDTO

Field	Type	Description
List1	List Of HOSLogbookEventDTO	List of Logbook Events (See Appendix 2, 2.7.7- HOSLogbookEventDTO)
List2	List Of HOSLogbookEventDTO	List of Logbook Events (See Appendix 2, 2.7.7- HOSLogbookEventDTO)
List3	List Of HOSLogbookEventDTO	List of Logbook Events (See Appendix 2, 2.7.7- HOSLogbookEventDTO)
List4	List Of HOSLogbookEventDTO	List of Logbook Events (See Appendix 2, 2.7.7- HOSLogbookEventDTO)

### 2.7.5- HOSLogbookRemarkDTO

Field	Type	Description
EpochTimestamp	Long	Original Date Time in Epoch format
EditEpochTimestamp	Long	Edit Date Time in Epoch format
HOSUsername	String	Username
EventSequenceld	String	Event sequence identifier

Remark	String	Remark comments
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### 2.7.6- HOSAppDriverCMVDTO

Field	Type	Description
HOSDriverId	Integer	Driver unique identifier
FirstName	String	Driver First Name
LastName	String	Driver Last Name
LastDrivingTime	Long	Total last driving time

### 2.7.7- HOSLogbookEventDTO

Field	Type	Description
HOSEventId	Integer	Unique Event identifier
EpochTimestamp	Long	Date Time on Epoch format
EventDescription	String	Event description
EventType	Integer	Type of Event
EventCode	Integer	Event code
EventData	Integer	Event Data
EventStatus	Integer	Event Status
EventOrigin	Integer	Event origin
EventSequenceld	String	Event Sequence identifier
Remark	String	Remark comments
VerifiedTimestamp	Long	Verified Date Time on Epoch format
TractorNumber	String	Tractor Number
GeoLocacion	String	Geolocation
Latitude	String	Latitude
Longitude	String	Longitude
DistanceLastCoordinates	Integer	Distance to previous coordinates
DistanceAccum	Integer	Accumulate distane
HoursAccum	Double	Accumulated Hours
TotalDistance	Integer	Total distance
TotalHours	Double	Total hours
AdditionalInfo	String	Additional Info
ViolationText	String	Violation comments

### 2.8- ExportFileDTO

Field	Type	Description
FileName	String	File Name of Data File to Export
File	Array of Byte()	File Content in Array of Byte format

### 2.9- ExportELDFFileDTO

Field	Type	Description
FileName	String	File Name of Data File to Export
File	Array of Byte()	File Content in Array of Byte format
FMCSAResponse	FMCSAResponseDTO	Details about FMCSA Response including errors (See Appendix 2, 2.9.1- FMCSAResponseDTO)

### 2.9.1- FMCSAResponseDTO

Field	Type	Description
HOSDriverId	Integer	Unique Driver identifier
DriverName	String	Driver Name
HOSUserName	String	Username
TimeStamp	Long	Date Time in Epoch format
Status	String	Driver Status Code
SubmissionId	String	Submission unique identifier
ErrorCount	Integer	Number of Errors
Broadcast	String	Broadcast
Errors	List Of FMCSAResponseErrorDTO	Details about errors found (See Appendix 2, 2.9.1.1- FMCSAResponseErrorDTO)

### 2.9.1.1- FMCSAResponseErrorDTO

Field	Type	Description
Detail	String	Details about Error
ErrorType	String	Error type
Message	String	Error Message

### 2.10- HOSUnidentifiedEventResponseDTO

Field	Type	Description
items	List Of HOSUnidentifiedEventReportDTO	List of Unidentified Events items (See Appendix 2, 2.10.1- HOSUnidentifiedEventReportDTO)
ignitionList	List Of HOSLogbookEventDTO	List of Ignition Logbook Events (See Appendix 2, 2.7.7- HOSLogbookEventDTO)
diagnosticList	List Of HOSLogbookEventDTO	List of Diagnostic Logbook Events (See Appendix 2, 2.7.7- HOSLogbookEventDTO)

### 2.10.1- HOSUnidentifiedEventReportDTO

Field	Type	Description
TractorNumber	String	Unique Tractor Number
ELDid	String	Unique ELD identifier
TotalDrivenMiles	Double	Total Driven Miles
items	List Of HOSUnidentifiedEventReportRowDTO	List of Unidentified Events rows (See Appendix 2, 2.10.1.1- HOSUnidentifiedEventReportRowDTO)

### 2.10.1.1- HOSUnidentifiedEventReportRowDTO

Field	Type	Description
HOSEventId	Integer	Unique HOSEvent identifier
TractorNumber	String	Unique Tractor Number
ELDid	String	Unique ELD identifier
Timestamp	Long	Event Timestamp
NewDriverStatus	String	New Driver Status
VehicleMiles	Double	Vehicle Miles
DrivenMiles	Double	Driven Miles
EventStatus	Integer	Event Status
Remark	String	Comments

### 2.11- HOSRequestedLogDTO

Field	Type	Description
RequestedNombre	String	Driver Full Name
RequestedTractorNumber	String	Tractor Number
RequestedTimestamp	Long	Time Stamp of the Request in EPOCH format
RequestedNewDriverStatus	String	Driver Status
RequestedLocation	String	Location
RequestedEventStatus	Integer	Event Status
Motive	Integer	Motive
OriginalTimestamp	Long	Original Time Stamp in EPOCH format

### 2.12- ComplianceDashboardDTO

Field	Type	Description
Months	List Of Integer	List of Months
TotalAmount	List Of Integer	List of Total Amounts by Months
BreaksAmount	List Of Integer	List of Break Amounts by Months
OnDutyAmount	List Of Integer	List of Total On Duty by Months
DrivingAmount	List Of Integer	List of Driving Amounts by Months
CycleAmount	List Of Integer	List of Cycle Amounts by Months

### 2.13- ComplianceRoadsideInspectionDTO

Field	Type	Description
Labels	List Of String	List of Labels
Data	List Of Integer	List of Data
TotalAmount	Integer	Total Amount
VehiclesCompliant	Integer	Total Vehicles Complaint
VehicleDefectsSolved	Integer	Total Vehicle Defects Solved
VehicleDefectsPending	Integer	Total Vehicle Defects Pending

### 2.14- HOSDashboardDTO

Field	Type	Description
LastLocation	String	Last Location
LastUpdateTimestamp	Long	Last Update Timestamp
DriverName	String	Driver First Name
DriverLastName	String	Driver Last Name
HOSDriverId	Integer	Driver Identifier
HOSUserName	String	Driver UserName
HOSRuleSetId	Integer	RuleSet Identifier
DrivingAmount	Double	Amount of Driving
DrivingString	String	Driving String
DrivingColor	String	Driving Color
OnDutyAmount	Double	Amount On Duty
OnDutyString	String	On Duty String
OnDutyColor	String	On Duty Color
OnDutyWeekAmount	Double	On Duty Week Amount
OnDutyWeekString	String	On Duty Week String
OnDutyWeekColor	String	On Duty Week Color
CurrentDutyStatus	String	Current On Duty Status
CurrentDutyStatusColor	String	Current On Duty Status Color
Next30BreakTimestamp	Long	Next 30 Break Timestamp
Next30BreakColor	String	Next 30 Break Color

### 2.15- HOSVehicleProfileDTO

Field	Type	Description
TractorVIN	String	Tractor VIN
TractorNumber	String	Tractor Number

### 2.16- HOSViolationDTO

Field	Type	Description
ExternalName	String	Driver External Name
HOSUserName	String	Driver Username
Timestamp	Long	Violaton timestamp
Violation	String	Violation description

### 2.17- HOSEventRecordDTO

Field	Type	Description
HOSEventID	Integer	Event Unique Identifier
ELDId	String	ELD Unique identifier
AppVersion	String	Application Version
Timestamp	Long	Event TimeStamp
TimestampString	String	Event TimeStamp in string format
HOSDriverId	Integer	Driver Unique Identifier
HOSDriver	String	Driver name
HOSCoDriverId	Integer	CoDriver Unique Identifier

HOSCoDriver	String	CoDriver name
TractorNumber	String	Tractor Number
TrailerNumber	String	Trailer Number
TractorVin	String	Tractor VIN
City	String	City
State	String	State
Latitude	String	Event Latitude
Longitude	String	Event Longitude
DriverLocationDesc	String	Driver Location Description
OldDriverStatus	String	Old Driver Status
NewDriverStatus	String	New Driver Status
EventStatus	Integer	Event Status
EventOrigin	Integer	Event Origin
EventType	Integer	Event Type
EventCode	Integer	Event Code
MalFunctionDiagnosticCode	String	MalFunction Diagnostic Code
DrivenMiles	Double	Driven Miles
VehicleMiles	Double	Vehicle Miles
ElapsedEngineHours	Integer	Elapsed Engine Hours

## 2.18- BasicHOSDTCReportDTO

Field	Type	Description
DTCode	String	DTC Code
DTCCodeName	String	DTC Code Name
FMI	Integer	FMI Code
FMIDescription	String	FMI Code Description
TractorVIN	String	Tractor VIN
TractorNumber	String	Tractor Number
OpenTimestamp	Long	Open Report Timestamp
ClosedTimestamp	Long	Close Report Timestamp
BusType	Integer	Bus Type

## 2.19- HOSNotificationDTO

Field	Type	Description
HOSNotificationId	Integer	Unique Notification Identifier
HOSClientId	Integer	Unique Client Identifier
Name	String	Notification Name
Type	Integer	Notification Type (See Appendix 1, 1.16- Notification Type Codes)
Emails	String	List of emails accounts where were sent
Drivers	List Of Integer	List of Driver Unique Identifiers
Assets	List Of Integer	List of Asset Unique Identifiers

## 2.20- IFTAReportDTO

Field	Type	Description
TractorVin	String	Unique Tractor VIN
items	List Of IFTAStateDTO	List of items included in IFTA Report (See Appendix 1, 2.20.1- IFTAStateDTO)
TotalMiles	Double	Total Miles
TaxableMiles	Double	Taxable Miles
MPG	Double	Miles per Gallon
TaxPaidGallons	Double	Tax Paid on Gallons used

### 2.20.1- IFTAStateDTO

Field	Type	Description
State	String	State regarding data reported
TotalMiles	Double	Total Miles

TaxableMiles	Double	Taxable Miles
TaxableGallons	Double	Taxable Gallons used
TaxPaidGallons	Double	Tax Paid on Gallons used
NextTaxableGallons	Double	Next Taxable Gallons
TaxRate	Double	Tax rate applied
TaxCreditDue	Double	Tax credit Due
Total	Double	Total

## 2.21- DVIRReportDTO

Field	Type	Description
DVIRReportId	Integer	Unique DVIR Report Identifier
HOSDriverId	Integer	Unique Driver Identifier on the Report
DriverName	String	Driver Name on the Report
HOSUserName	String	User Name on the Report
Timestamp	Long	Time Stamp of the Report in Epoch Format
PDFFileName	String	File Name of the PDF of the DVIR Report Resumed
PDFFileNameFull	String	File Name of the PDF of the Full DVIR Report
TractorNumber	String	Tractor Number in the Report
TrailerNumber	String	Trailer Number in the Report
VehicleCondition	Integer	Vehicle Condition reported



## Appendix 3: Corrections done based on QA test results

### 3.1- First Fails Results with Tested items 1 - 1.1

- Issue with 1.1.2 Get Client For Reseller call  
Correction applied:  
Code fix applied into the method
- Multiple Issues with 1.1.3 Add New Client For Reseller call  
Correction applied:  
Method name corrected on the documentation (“s” letter removed)  
from: `/HOSClient/UpdateHOSClientsForReseller`  
to: `/HOSClient/UpdateHOSClientForReseller`
- Multiple Issues with 1.1.4 Update Client call  
No error found. Please verify input JSON

### 3.2- New Fails Results with Tested items 1 - 1.2

- Multiple Issues with 1.2.1 Get HOSDrivers For Reseller call  
Correction applied:  
Code fix applied into the method
  - Multiple Issues with 1.2.2 Get HOSDriver For Reseller call  
Correction applied:  
Code fix applied into the method
  - Multiple Issues with 1.2.3 Add New HOSDriver For Reseller call  
Correction applied:  
Input parameters and JSON sample on the documentation updated (multiple fields removed and name corrected)
  - Multiple Issues with 1.2.4 Update HOSDriver For Reseller call  
Correction applied:  
Input parameters and JSON sample on the documentation updated (multiple fields removed and name corrected)
- Note:** Same correction applied to Add New HOSDriver For Client and Update HOSDriver For Client calls

### 3.3- New Fails Results with Tested items 1 – 1.1

- Issues with 1.1.3 Add New Client and 1.1.4 Update Client For Reseller calls  
Correction applied:  
New validation added to let the user know that is trying to enable Canada in a new or existing Client and doesn't have permission to do it using this API

### 3.4- New Fails Results with Tested items 1 - 1.1.4, 1.1.5, 1.2.2

- Issues with ClientApiKey validated as existing instead of ignore it  
Correction applied:  
New validation added to allow user to send any ClientAPIKey including an existing one
- Multiple Issues with 1.1.4 Update HOSClient For Reseller call:  
Correction applied:  
Code fixes applied and New validations added

- Multiple Issues with 1.1.5 Update HOSClient And Update API Key For Reseller call:  
Correction applied:  
Code fixes applied and New validations added
- Multiple Issues with 1.2.2 Get HOSDriver For Reseller call:  
Correction applied:  
Code fixes applied and New validations added

### **3.5- New Fails Results with Tested items 1 - 1.2.3, 1.2.4**

- Multiple Issues with Insert and Update Driver for Reseller calls  
Corrections applied:  
Multiple new validations added  
TimeZoneCode Parameter removed

### **3.6- New Fails Results with Tested items 2 - 2.1.2, 2.1.3**

- Multiple Issues with Update Client and Update Client and ApiKey for Client calls  
Corrections applied:  
Multiple new validations added

### **3.7- New Fails Results with Tested items 2 - 2.2.1, 2.2.2**

- Multiple Issues with Get All Drivers and Get Driver for Client calls  
Corrections applied:  
New validations added

### **3.8- New Fails Results with Tested items 2 - 2.2.3, 2.2.4**

- Multiple Issues with Insert and Update Driver for Client calls  
Corrections applied:  
New validations added

### **3.9- New Fails Results with Tested Revision**

- Multiple Issues with Reseller and Client calls  
Corrections applied:  
New validations added

### **3.10- New Fails Results with Tested items - Asset**

- Multiple Issues with Asset calls  
Corrections applied:  
New validations added

### **3.11- New Fails Results with Tested items - Home Base**

- Multiple Issues with Home Base calls  
Corrections applied:  
New validations added

### **3.12- New Fails Results with Tested items - Shipment**

- Multiple Issues with Shipments calls

Corrections applied:

- New validations added For multiple Timestamps parameters in Shipment calls
- Other new validations added

### **3.13- New Fails Results with Tested items – Logbook, Logs Edits, Unidentified Logs, Dashboard, FMCSA, Driver Records and Violations**

- Multiple Issues with Logbook, Logs Edits, Unidentified Logs, Dashboard, FMCSA, Driver Records and Violations calls

Corrections applied:

- New validations added

### **3.14- New Fails Results with Tested items**

- Multiple Issues with different calls

Corrections applied:

- New validations added
- Documentation corrections

### **3.15- New Fails Results with Common and Canada ELD methods Tested items**

- Multiple Issues with different calls

Corrections applied:

- New validations added

### **3.16- New Fails Results with WorkOrder Enabled and IFTA Enabled with Update Client methods Tested items**

- Multiple Issues with different calls

Corrections applied:

- New validations added

### **3.17- New Fails Results with Tested items**

- Multiple Issues with different calls

Corrections applied:

- New validations added