

**ASHOKLEYLAND**  
**DATA AS A SERVICE – API DOCUMENT**  
**VERSION 1.1.1**

|                              |                  |             |  |
|------------------------------|------------------|-------------|--|
| Customer name:               | Date: 17/05/2019 | Rev: 1.1.1  | Page: 1 OF 5   |
| Prepared by: M. Manisha Sree | Reviewed by      | Approved by | THIS INFORMATION IS CONFIDENTIAL AND IS PROPERTY ASHOK LEYLAND LTD. THIS CANNOT BE USED FOR PURPOSE OTHER THAN AGREED / INTENDED |

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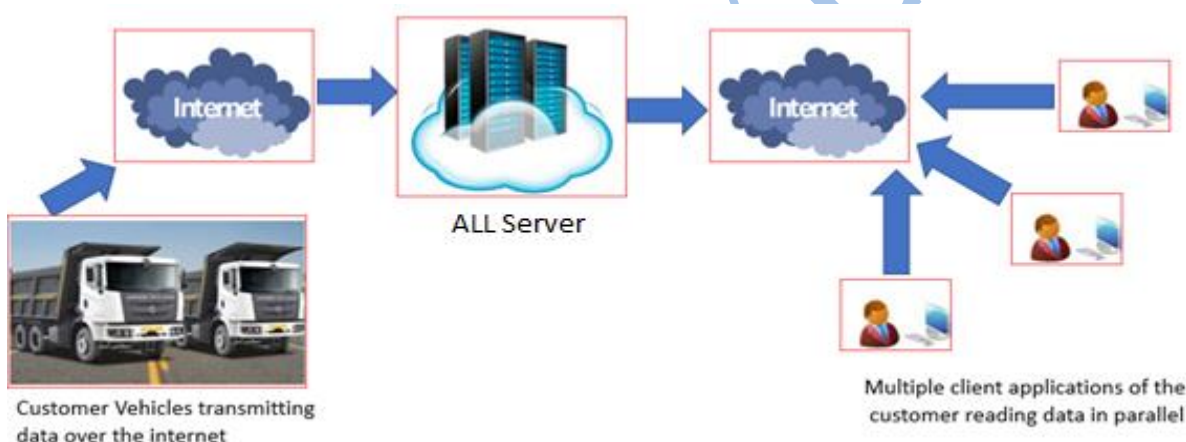
## 1.INTRODUCTION:

- Customer requires the iALERT GPS data to be live streamed on a real-time basis.
- In this regard, ASHOK LEYLAND is submitting this proposal for offering data as a service to the customer.

## 2.STAKEHOLDERS:

1. Ashok Leyland – Location Analytics provider to Client
2. Vendor – Vendor providing GPS services to Transporter
3. Client – Company using Transporter's vehicle for transportation.

## 3.SOLUTION ARCHITECTURE:



## 4.SOLUTION APPROACH:

1. ASHOK LEYLAND shall host the API and the details of the same shall be shared to the client at the time of integration.
2. The structure of the data packet is in JSON format and is described in section 9.
3. The data shall be shared through an API with authentication token for consumption by the client.
4. At the client end, it is required to call the API and fetch the latest vehicle vital information.

Note: ASHOK LEYLAND shall be able to support the customer in operationalizing the client application required to consume the data

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**5.PACKET STRUCTURE:**

```
{"altitude": "39.4", "heading": "264.0", "timestamplocal": "2018-06-12  
13:18:38", "vehicleregnumber": "NL01AB-  
3607", "latitude": "26.23007", "vehiclebatterypotential": "27.63", "gps speed": "46.37", "ignitionstat  
us": "1", "longitude": "86.201155", "odometerreading": "3456.87"}
```

**6.MINIMUM HARDWARE REQUIREMENTS:**

- 2 GB RAM.
- 160 GB HDD.
- Active Internet connection.
- Windows XP and above **(OR)** Linux/Redhat machine.

**7.MINIMUM SOFTWARE REQUIREMENTS:**

- Simple web app to consume the API and process.

**8.INTEGRATION PROCESS:****API URL:**

[https:// ialert2.ashokleyland.com /ialert/daas/api/getdata?token=<TOKEN>](https://ialert2.ashokleyland.com/ialert/daas/api/getdata?token=<TOKEN>)

**\*Complete URL will be shared by ALL team.**

**Response from API:**

```
{"altitude": 440.5, "datetime": "2019-06-17  
15:53:16.0", "odometer": 16732, "heading": 116, "vehicleregnumber": "TS07UF9587", "latitude": 12.2  
34606742858887, "batlevel": 24.34000015258789, "ignition": 0, "speed": 0, "longitude": 78.19510650  
634766}
```

**9.PARAMETER DESCRIPTION:**

|                              |                  |             |   |
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| Vital Name                | Field Type | Description                      | Format                                |
|---------------------------|------------|----------------------------------|---------------------------------------|
| Vehicle Reg number        | String     | Vehicle Registration No          | Vehicle Registration number with '-'. |
| Time Stamp Local          | String     | Timestamp of the GPS data in IST | Yyyy-mm-dd hh:mm:ss                   |
| Latitude                  | String     | Latitude of the GPS Data         |                                       |
| Longitude                 | String     | Longitude of the GPS Data        |                                       |
| Vehicle Battery Potential | String     | Battery Level remaining in %     |                                       |
| GPS Speed                 | String     | Speed in KM/H                    |                                       |
| Ignition Status           | String     | Ignition On / Off Status         | 0 – OFF, 1 - ON                       |
| Heading                   | String     | Vehicle Direction                |                                       |
| Odometer Reading          | String     | Distance Travelled               |                                       |
| Altitude                  | String     | Vehicle Altitude                 |                                       |

## 10.DATA STORAGE / SECURITY:

- IP based access to the customers or the vendors.
- ASHOK LEYLAND will be streaming the data in real-time basis. Consumers can call the API and store the data.