# iFUEL Mobile
## Developer Information

iFUEL®
REFUELLING SOLUTIONS

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**Unique Record ID**

- Each record used in a relationship has a uid which is a string.
- When the user logs in they received a token and a customer uid.
- The token and customer uid are part of the message payload required.
- Where the customer uid is not present or incorrect no data shall be returned.

**Transactions**

- Will enable a pull of transactions. The customer uid is required.
- There is an option to select transactions for a certain date period.
- There is the option to filter records based on any relationship so long as the uid for that relationship is present in the payload.
- Each transaction record contains its own uid.

**Equipment**

- Within iFUEL Mobile equipment records are made up of the parent equipment and the child compartment.
- The equipment can have multiple compartments generally based on fluid. Ie diesel, adblue and lubricants.
- There are cases where equipment may have more than one compartment for one fluid. Think of a service truck that has
    - Diesel running tank
    - Diesel tank on a genset/compressor
    - Diesel tank for dispensing to other equipment
- The iFUEL Mobile system can manage these complex types of equipment and compartments if needed.
- Each equipment has its own equip uid.
- Each compartment has its own comp uid.

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- The master equipment list can be retrieved.
- An alternative view is offered based on compartments which also includes the parent equipment detail and can be retrieved with the customer uid.
- The compartment list for a single equipment can be retrieved where the equipment uid is part of the filter payload.

**Equipment Create**

- New equipment can be created, and iFUEL Mobile will assign an equip uid.
- The Equipment must be created first, before the compartment can be created.

**Equipment and Compartment update**

- The equipment can be updated where a uid is submitted with the URL, and a suitable payload of fields to update is submitted with a valid token.
- The integration will need to determine which is a compartment change and which is an equipment change.
- There is no delete capability exposed within the endpoints. However, records can be archived when they are no longer needed. That's just a matter of running an update with the relevant field set to false.
- The reason for no delete is that the fuel dispense records are still valid even when the equipment is retired.

**Other**

- It's assumed that all data payloads will be constructed based on the data structures within the iFUEL Mobile system.
- We use a range of field names such as 'field_xyz' where xyz is an integer.

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- A full list of field names and cross references will be made available for each end points with examples. Data payloads will be JSON and include the field definition and observe the data rules and assumption for each endpoint.

**Next Steps**

- On confirmation of scope and that the proposed scheme is agreed we shall commence final build of the api.  At that point complete documentation will be provided.

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