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# Protocol Documentation

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## Booking.proto

### Booking

Represents the booking of a vehicle.

Field	Type	Label	Description
vehicle_id	int32	required	ID of booked vehicle.
customer_id	int32	required	Customer that booked the vehicle.
status	BookingStatus	required	Status of the booking.
confirmation_sent	bool	required	Has booking confirmation been sent?
payment_received	bool	required	Has payment been received?

## BookingStatus

Represents the status of a vehicle booking.

Field	Type	Label	Description
id	int32	required	Unique booking status ID.
description	string	required	Booking status description. E.g. "Active".

## Customer.proto

### Address

Represents a mail address.

Field	Type	Label	Description
address_line_1	string	required	First address line.
address_line_2	string	optional	Second address line.
address_line_3	string	optional	Second address line.
town	string	required	Address town.
county	string	optional	Address county, if applicable.
country	string	required	Address country.

### Customer

Represents a customer.

Field	Type	Label	Description
id	int32	required	Unique customer ID.
first_name	string	required	Customer first name.
last_name	string	required	Customer last name.
details	string	optional	Customer details.

Field	Type	Label	Description
email_address	string	optional	Customer e-mail address.
phone_number	string	repeated	Customer phone numbers, primary first.
mail_addresses	Address	repeated	Customer mail addresses, primary first.

## Vehicle.proto

### Manufacturer

Represents a manufacturer of cars.

Field	Type	Label	Description
id	int32	required	The unique manufacturer ID.
code	string	required	A manufacturer code, e.g. "DKL4P".
category	Manufacturer.Category	required	Manufacturer category.
details	string	optional	Manufacturer details (minimum orders et.c.).

### Model

Represents a vehicle model.

Field	Type	Label	Description
id	string	required	The unique model ID.
model_code	string	required	The car model code, e.g. "PZ003".
model_name	string	required	The car model name, e.g. "Z3".
daily_hire_rate_dollars	sint32	required	Dollars per day.
daily_hire_rate_cents	sint32	required	Cents per day.

### Vehicle

Represents a vehicle that can be hired.

Field	Type	Label	Description
id	int32	required	Unique vehicle ID.
model	Model	required	Vehicle model.
reg_number	string	required	Vehicle registration number.
mileage	sint32	optional	Current vehicle mileage, if known.
category	Vehicle.Category	optional	Vehicle category.
daily_hire_rate_dollars	sint32	optional	Dollars per day. Taken from model if unspecified.
daily_hire_rate_cents	sint32	optional	Cents per day. Taken from model if unspecified.

## Vehicle.Category

Represents a vehicle category. E.g. "Sedan" or "Truck".

Field	Type	Label	Description
code	string	required	Category code. E.g. "S".
description	string	required	Category name. E.g. "Sedan".

## Manufacturer.Category

Manufacturer category. A manufacturer may be either inhouse or external.

Name	Number	Description
CATEGORY_INHOUSE	0	The manufacturer is inhouse.
CATEGORY_EXTERNAL	1	The manufacturer is external.