

Overview

V8.0 – February 2020

This document describes the SmartMove dispatching system.

SmartMove uses the mobile phone (cellphone) network and the internet for all communication. Not only does this eliminate the significant costs involved in setting up and maintaining a radio network but it provides great flexibility in the operation of the fleet in that the vehicles, the calltaking, and the administration of the fleet can all be in different locations.

SmartMove is more than just a dispatching system. The unique Docket-Killer feature greatly simplifies the bookkeeping associated with running a fleet, while the reports provide a level of detail which is impossible to provide with a traditional radio-based system.

Contact details for more information are given at the end. Note that the entire SmartMove system can be demonstrated over the internet.

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Feature Summary

SmartMove provides a range of features that support the whole taxi business – it is not just a dispatching system. The main features are listed below along with a reference to the section where the topic is discussed in more detail.

- 1. Communication with vehicles utilises the GPRS mobile phone network. Cars are in constant contact with the network wherever there is mobile phone coverage; no infrastructure is required (towers, transmitters, etc.). [2.1]
- 2. Set-up costs are minimal because no significant infrastructure is required. [2]
- 3. Each car has a separate link to the dispatching computer. Communications to each car is largely unaffected by other activity. [2.1]
- 4. All vehicles are tracked in real-time and all GPS data is recorded. This can be used for various quality assurance functions. [6.1]
- 5. Every significant event involving the driver or vehicle is recorded and instantly available for analysis if required. This includes meter on/off, job resubmit, no-show, messages, calls to base, etc. [6]
- 6. The entire system is based on the internet. This means that bookings can be taken anywhere, the vehicles can be anywhere with mobile phone coverage, and reports can be generated anywhere. This allows fleets to outsource the call-taking but handle other functions (quality assurance, bookkeeping, etc) locally. Owners and drivers can also have some access to data. [2.2, 6]
- 7. The software is designed to allow a call centre to manage more than one fleet. [2.2]
- 8. Registered users can use the ExpressBooker web site to make and manage bookings. The users are connected directly to the SmartMove dispatching computer and no operator intervention is required. The web site can also be set up for public access but only to make bookings. [4.5]
- 9. Passengers can book and pay for the trip with the SmartHail booking app or branded equivalent. [4.7, 5.9.3]
- 10. Various methods are available for a push-button booking: QuickCab and Taxi Butler. [4.8]
- 11. The out-of-car alerting lets a driver leave the car without missing out on work. [3.1, 3.2, 3.5]
- 12. Drivers can make bookings. [3.2, 4.4]
- 13. Drivers can get in-vehicle navigation instructions based on Google Maps. [3.1] Alternatively drivers can use the navigation on their own smartphone. [3.5]
- 14. Automated bookings can be made with the SmartVOIX phone system. [4.2, 7.4]
- 15. Using the query channel does not block data traffic. [2.1]
- 16. A vast amount of data is recorded and a comprehensive set of reports is provided. [6]
- 17. Software upgrades to cars are done remotely with virtually no interference to operations. [8.2]

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- 18. The DocketKiller bookkeeping feature significantly reduce the effort involved in managing financial paperwork. [5]
- 19. Credit cards can be billed if the card details are supplied at the time of booking. [5.9] Alternatively passengers booking with the passenger app can pay with that app. [4.7, 5.9]
- 20. Faulty units are swapped out and replaced with a spare unit. This leads to very minimal downtime in the event of failure. [8.1]
- 21. The system is highly configurable. Options, timeouts, zones, etc. can all be easily changed by the fleet at any time. [3.4, 6.2]
- 22. Training is provided in the vehicles with a driver guide, a comprehensive set of tutorials, videos and on-screen help. [3.2]
- 23. The system learns new addresses. The locations are learnt as jobs are done. No setup time is required. [4.1]
- 24. The SmartVOIX phone system allows call centres to be linked. [7.4]
- 25. The fare calculation screen provides an accurate estimate of the fare. [4.1]
- 26. Drivers can change a job before resubmitting it. This means that drivers do not have to call the base to make changes. [3.1]
- 27. Performance reports use the time the vehicle arrived at the pick-up address, not the time when the meter was turned on. [10]
- 28. When using the SmartVOIX phone system recordings are linked to bookings and can be retrieved very rapidly when required. [7.4]
- 29. Time changes as a result of daylight saving adjustments are handled automatically. [8.4]
- 30. The panic (duress) button can be tested without needing to notify the base. [3.1]
- 31. In a real panic situation the operator can monitor the conversation in the car. The driver can enable two way communication if required. [3.1]
- 32. The SmartDriver phone app provides drivers with various features when away from the vehicle, including the ability to read messages and tentatively accept a job offer. [3.5]
- 33. Shift restrictions can be enforced and a logbook generated on request. These features are primarily for New Zealand fleets. [3.1]
- 34. A driver can "plot" to a zone. This prevents an empty car being sent to the zone. [3.3]
- 35. A driver can blacklist a passenger and a passenger can blacklist a driver. [3.1]
- 36. Rules can be applied to bookings to handle unusual situations. [4.1]
- 37. Total Mobility claims can be handled electronically in New Zealand. [5.8]
- 38. The electronic logbook is approved by the New Zealand Transport Authority (NZTA). There is no need for a paper logbook.
- 39. Account holders have a web portal for managing the account. This includes specifying rules on how the account may be used. [5.10]

1. Introduction

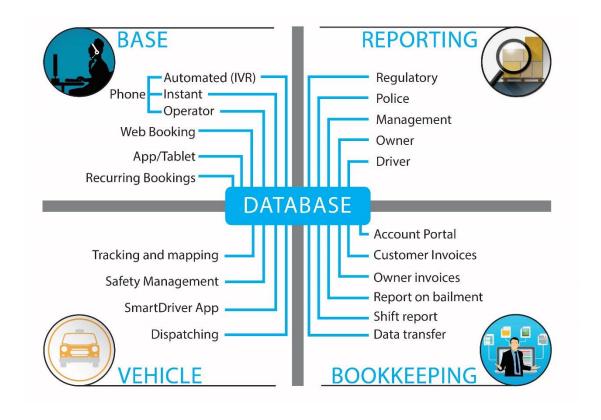
SmartMove combines the power of the internet with the reach of the mobile phone network to provide what is arguably one of the most sophisticated dispatching systems available today.

A key feature of SmartMove is that the booking operator, the dispatching computer, and the cars are all linked using the internet. The operator can be anywhere there is an internet connection and the vehicles can be anywhere there is mobile phone coverage. It all works seamlessly.

The software is ideally suited for call centres as an operator anywhere can handle any number of fleets. This opens up possibilities not previously available. A fleet can handle its own bookings during the day and hand over to someone else at night, for example.

SmartMove strives to be a leader in the market. New features are constantly being added and all users benefit from each new release. Upgrades come automatically as soon as they are released.

SmartMove consists of four main components built around an industry standard SQL database, as shown in the following figure. These four components are described in the following sections.





2. SmartMove communication

2.1. Vehicle communication

SmartMove differs from radio based dispatch systems in that it uses the mobile phone network instead of a private radio network. All communication between the dispatching computer and the vehicles is done using the GPRS¹ service on the mobile phone network.

This is a significant distinction with several main benefits:

- Fleets do not need to maintain any communications equipment. The telecommunication providers take over that responsibility.
- Cars can be monitored and controlled wherever there is mobile phone (cellphone) coverage.
- The GPRS service has greater "bandwidth" than a traditional radio network. This
 means more data can be collected which in turn provides the opportunity for a
 much more extensive range of analyses covering the activities of all the vehicles
 at all times.

The mobile phone network is designed to handle a very large number of communications links simultaneously. This is a major point of difference with existing radio-based dispatching systems as there is a separate data link to every car which is open virtually all the time. All the links are independent and the use of one link does not affect the operation of other links. Thus one car might be getting a message whilst one or more other cars are being offered work. The end result is that work is dispatched more quickly. This is particularly important when several cars become available in a short period of time and there is a backlog of work.

The GPRS link is open whenever possible and the communication between the vehicle and the dispatching computer is usually immediate. If the link is broken for any reason – typically when a car goes out of coverage – the vehicle will reconnect automatically as soon as possible. Any data waiting to be sent to or from the vehicle will be sent when the link is re-established. The cars are normally fitted with two SIM cards from different carriers to ensure continuity of service in the event of a failure in one of the carriers.

A "voice channel/query channel" is also available. This is done as a hands-free call using the microphone and speaker built into the screen. The system can be configured to use a voice call or a VoIP² call. The data link remains open and work can be sent whilst the driver is talking to the operator.

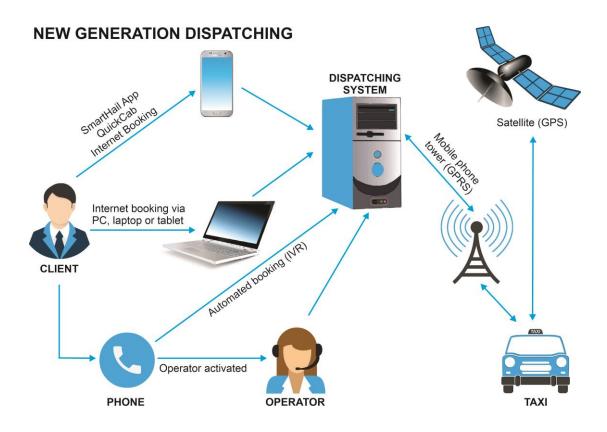
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¹ GPRS = General Packet Radio Service. Data link provided on the mobile phone network. Used to send job details, messages, location data etc. to and from vehicles.

² VoIP = Voice over Internet Protocol. A standard protocol for making voice calls over the internet.

2.2. Base communication

In many cases the computer handling the dispatching is not in the base itself – it is held in a high-availability data centre. The communication from the base operators to the dispatching computer is over the internet. This arrangement is shown in the figure below.



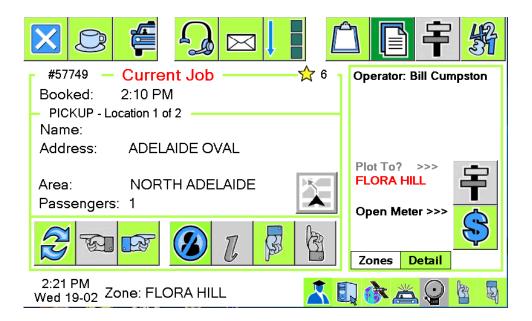
Bookings can enter the system in a variety of ways – described in section 4 – but ultimately the bookings are processed by the dispatching computer. The cars report their position regularly and work is allocated to the most appropriate car. More information on the dispatching rules is given in section 3.3 (page 14).

The database on the primary server is replicated to a second server in near real-time and this computer can take over the dispatching role if there is a major disaster at the primary site. Both server have battery backup and a generator that will start automatically if required. The data in the database is replicated further to a cloud-based server and backed-up every night.

3. SmartMove for the driver

3.1. Driver terminal

SmartMove offers a choice of terminals for the drivers – either a mobile data terminal (MDT) or an Android tablet or phone. The MDT layout is shown below.



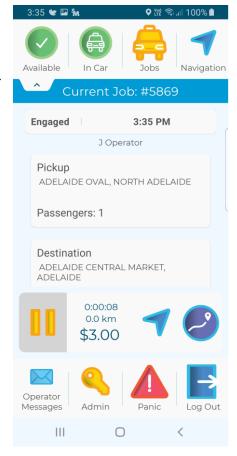
The MDT is manufactured by Digitax in Italy and is a very robust unit with a number of interfaces that can connect to other devices. In particular it can connect to an external meter, monitor seat sensors, monitor the health of some cameras, and wake itself when power is available. This last feature allows a stolen car to be tracked.

The units are generally fitted with two SIM cards so if there is a network failure with the first carrier the unit will automatically switch to the second carrier. Training is in the form of a printed driver guide, in-vehicle tutorials, and videos.

SmartMove can also operate on an Android tablet or smartphone. The appearance is very different but the functionality is largely the same. The example shown here gives the job details and the meter. See section 3.3 below for more details.

Training is in the form of on-screen help and videos.

For both versions a logbook meeting the New Zealand specifications can be produced on request.



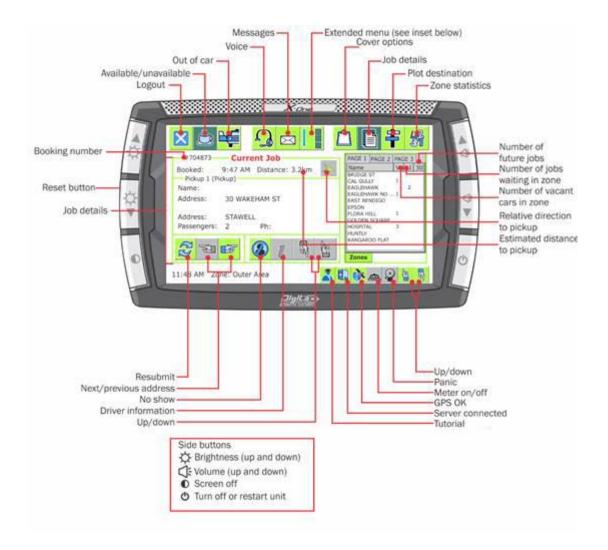
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3.2. Driver features (MDT)

Information for the drivers is displayed on a screen designed for ease of use. Icons (pictures) are used wherever possible to minimise the use of written text. All information supplied to the driver is displayed in a readable form on the screen in a relatively large font. This reduces the possibility of drivers misinterpreting the information.

Much of the training is provided in the vehicle in the form of short tutorials that drivers can watch during quiet times. The tutorials are a few minutes long and cover all aspects of SmartMove – the main concepts, how to use the equipment, and how to investigate faults. A printed driver guide is also supplied.



The MDT can be connected to any of the standard meters used in Australian and New Zealand. Alternatively the meter built into SmartMove can be used provided it meets local regulatory requirements.

A panic (duress) button is fitted to allow the driver to discretely request help. If desired the other drivers in the fleet can be notified that the button has been pressed and get the



location of the vehicle. The base operator can monitor conversation in the vehicle but the driver cannot hear the operator until the driver presses the button a second time.

The base operator must follow the approved procedure for handling a panic situation – this might include notifying police and/or notifying other cars. The panic alarm must be cleared by the base operator. A special screen allows the driver to test the panic button without the need to warn the base operator first.

Messages can be sent to a driver and, if required by the base operator, the driver can send back a response to a question. For example the base might send the message "Are you available for a trip to the mine?" and the driver can reply "yes" or "no". The time each driver reads a message is recorded along with any response. If permitted the drivers can also send messages to the base operator or to other drivers.

The "out-of-car" feature is unique to SmartMove and is very popular with drivers. This allows a driver to leave the car and be notified that a job offer is being made. SmartMove "pranks3" the driver's phone to signal that work is available. For drivers with a smartphone the SmartDriver app described in section 3.5 below performs the same task.

The system can be configured to allow a driver to call a passenger. It can also be configured to allow a driver to send an SMS to a passenger. Typical messages are: "Car is waiting" and "Car is stuck in traffic and will be there as soon as possible".

Another feature allows drivers to change a job before resubmitting it. If the passenger isn't ready the driver can request a delay before the job is re-queued. If there are too many passengers for the vehicle the driver can set the number of passengers so that the job goes to a suitable car. Similarly the driver can also set the job "attributes" so that the right type of vehicle is dispatched e.g. maxi, wheelchair, etc.

A driver can create a booking – see section 4.4 below.

Other features provided for the drivers are:

- 1. In-vehicle navigation is provided. This can be done with the MDT or with the SmartDriver app described in section 3.5.
- 2. Lost property can be recorded on the driver's screen. The details are immediately available to the base operator.
- 3. Statistics on past and future jobs in each zone can be displayed. These allow a driver to have a feel for the work being done.
- 4. Shift restrictions can be enforced automatically so that drivers don't inadvertently breach their legal obligations to take breaks. This applies particularly in New Zealand.

Taken together these features mean that drivers rarely need to talk to a base operator. The use of the 'query channel' is dramatically reduced compared to a conventional dispatching solution. The average is about three calls per hour for each 100 vehicles.

³ To prank a phone is to let it ring two or three times as a signal.

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3.3. Driver features (Android tablet/phone)

The functions offered on the Android version of SmartMove are similar to those on the MDT however there are some limitations.

- 1. Most devices have only one SIM card. Any failure of the network can result in loss of service.
- 2. The tablets are generally not made to the same level of robustness as the MDT and may fail in extremely hot weather.
- 3. The tablets themselves generally do not connect to other devices. However an external junction box can be used. This allows the tablet to
 - a. Collect fares from an external meter.
 - b. Operate the tariff light.
 - c. Allow the connection of a panic/distress button.
 - d. Control the power to a taxi meter. This can prevent the meter being used when no driver is logged in.

One use of the Android version of SmartMove is on a phone kept in the driver's pocket. This solution generally appeals to drivers of hire cars.



3.4. SmartMove dispatching algorithm

SmartMove is based on the concept that the server will offer a job to a suitable vehicle. If the driver of the vehicle does not accept the offer then the job will be offered to another driver.

Several methods for dispatching work are supplied with SmartMove. The standard method is based on zones. Zones can be any shape and size and typically will follow natural boundaries – rivers, railway lines, etc. Tools are provided to allow fleets to define their own zones.

Normally there is no bidding for work. An offer may be made whenever a car is vacant — when the fleet is busy the offer will be made as soon as the meter is cleared at the end of a job. Typically drivers are given 15 seconds to accept an offer but, as with everything in SmartMove, this can be changed. The intention is that drivers do not use the terminal whilst driving. As soon as the car becomes vacant the next job is offered if one is available — there is no need for the driver to reserve work in advance.

The dispatching rules are complex but at the simplest level a job will be offered to the car in the same zone that has been waiting longest. If no car is available then SmartMove will search in other zones. The order in which zones are searched is configured separately for each zone. If required, a delay can be specified before the next zone is searched.

If no car can be found in any of the zones listed the job is added to the "cover list" and may be offered to any car. Drivers can specify how far they are prepared to travel and any unallocated job that is within the distance given will be offered automatically to the driver.



When a driver has determined the destination zone from the passenger and the meter is on the driver may "plot" to that zone. If any work is waiting in that zone a vacant car will not be sent to that zone and the job will be offered to the driver as soon as the meter is turned off. If another car becomes vacant in that zone first then the job will be offered to that car instead.

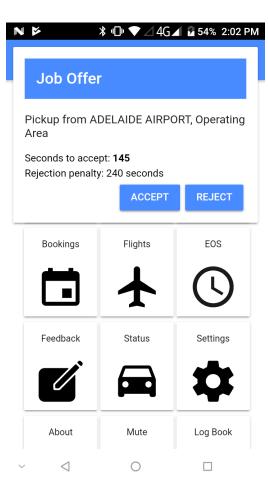
Bidding for work is also provided for fleets that wish to use this method for dispatching. In this case local work is offered in the usual way but more distant work is not. A driver is presented with a list of remote jobs waiting and can bid for any of the jobs listed.

Alternatively jobs can be allocated on the basis of which car is closest. When two cars have almost exactly the same distance to the job – because the cars are on a rank for example – the job is given to the one that has been vacant longest.

3.5. SmartDriver app

Drivers may use the SmartDriver app on their smartphones. This app provides a few features that support the driver when out of the car. These are:

- 1. A job offer can be accepted on the phone. The driver must still go to the car and re-accept the offer in the car but extra time is allowed.
- 2. The phone can be used for navigation. When the driver requests a map on the MDT the address is sent to the phone and the navigation system built into the phone can be used to get directions.
- 3. Messages can be read on the phone.
- 4. The electronic logbook can be requested. This feature is primarily for use in New Zealand.
- 5. The driver can see end-of-shift reports. See section 5.4 below.
- 6. In future the SmartDriver app will be used to manage rosters.

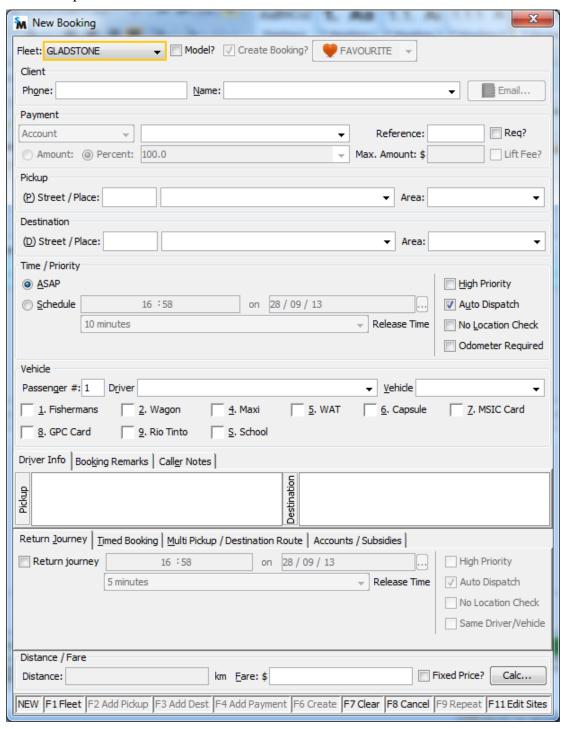


4. SmartMove bookings

SmartMove offers a variety of ways to make bookings to handle different situations. These are described in the following sections.

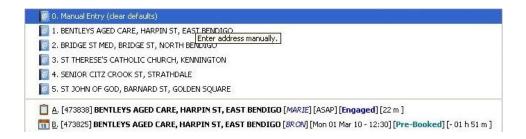
4.1. Operator bookings

The majority of bookings are done by an operator using software running on a standard office computer.





If SmartMove is connected to the phone system and the caller's phone number is available then SmartMove provides a number of features to help the booking process. As soon as the call is answered a "pop-up" screen appears – an example is shown below.



This screen lists addresses commonly used by the caller. With a single keystroke the booking form can be filled with the details for the selected address. In addition various other fields can be set for the caller and these are included in the booking automatically. This allows standard preferences to be set for the caller – the need for a wheelchair, for example. An email confirmation can be sent if required.

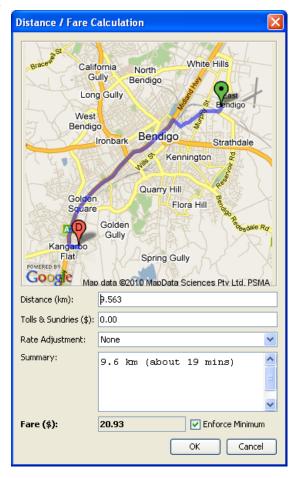
Apart from addresses the pop-up screen also lists model (template) bookings for the caller. These are used when a caller has complex booking requirements. Pre-bookings, current bookings and bookings from the recent past are also listed. All of these can be retrieved with a single keystroke.

SmartMove is delivered with a set of street names and new street names/place names can be added whenever required. No setup time is required. A proprietary algorithm refines the location as each new pick-up occurs so if a location changes — a nightclub moves to a new address for example — the system will learn the new location.

An estimate of the fare can be obtained by using the *Calc* button on the booking form. The estimate is based on the route recommended by Google Maps and one can change the route to get a new estimate for the distance to be travelled.

Multiple pick-up/drop-off addresses are handled on the booking form and with the fare calculation.

When a job is on account and or paid by some sort of subsidy the details can be entered on the booking form and passed to the driver. More details are given in section 5 below. Payment by credit card is also possible if the fleet has registered for credit card payments



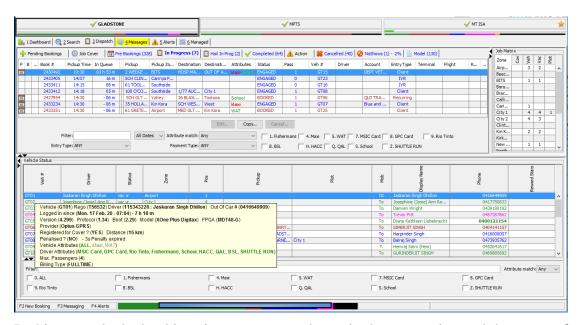


Bookings for a period of time can be handled. A separate screen can be used to manage important bookings – see section 4.9.

There are several additional features help with the booking process:

- Blacklist entries can be created for drivers and for passengers. A driver may refuse to go to an address or a passenger may request that a particular driver not be sent.
- Additional information may be recorded for an address. These are known as "booking qualifiers" and may be a note for the operator, a note for the driver, or the addition of an attribute. For example, any vehicle going to a particular address may need to be capable of carrying a wheelchair. The wheelchair attribute can be added automatically.
- Booking rules may be defined that apply in specific circumstances. For example a fleet may refuse to accept wheelchair bookings between midnight and 5am.
- Call recordings can be retrieved from the booking if the phone system is fully integrated

Apart from the booking form, the base operators have access to a dispatch screen which shows the current status of the fleet.



In this example the bookings in progress are shown in the top section and the status of each vehicle is shown in the bottom section. "Flyovers" are used to provide additional information – in this example the details for car GT01 are being displayed.

4.2. Automated bookings (IVR4)

The automated booking system provides a sophisticated system for handling bookings automatically. It offers a caller a number of addresses⁵ – the ones most commonly used by the caller. After selecting one of the addresses the caller can specify the number of

⁴ IVR = Interactive Voice Response

⁵ Typically four addresses are offered but the number is configurable.

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passengers and, if required, the date and time for the pick-up can be entered. At any time the caller can opt out of the IVR system and join the queue to speak to an operator.

Typically about one third of bookings are handled automatically by SmartVOIX. In some fleets almost 50% of bookings resulting from calls are handled using this service. The service is provided with the SmartVOIX phone system described in section 7.4 below. SmartVOIX can be used as a complete phone system or as a companion service to an existing phone systems

In addition it is possible to create a booking for a caller at a pre-set address. This is intended for fleets that have a phone system that already offers that option. Typically this is used in supermarkets and other places with high demand.

4.3. Recurring (repeat) booking

A sophisticated system for handling recurring bookings is provided. First a model booking is created and this booking is copied whenever a new booking is created. Any change to the model booking will automatically be incorporated in future bookings.

The second step is to define when the booking is to be generated. There are two main options:

- 1. A booking can be produced on specified days on a weekly or fortnightly schedule. Thus one can have a booking on Monday and Wednesday each week or every second Thursday.
- 2. Instead of a schedule one can have a "diary" and specify precisely which days require a booking.

Diaries can also be used as a "filter" for bookings done on a schedule. The filter can be used to include or exclude particular days. One diary is for public holidays so one can have a booking for every Monday and Wednesday each week *except if the day is a public holiday*. Similarly one might have a booking for every weekday that is in the school-term diary or have a booking for every weekday that is not in the school-holiday diary.

4.4. Driver bookings

The driver can create a booking without contacting the base. This is particularly useful in fleets that allow drivers to have private clients that need to be billed by the fleet for work done on account.

Options that can be set include the pickup address, the destination address, the number of passengers, the time the taxi is required (which may be "now"), any special job attributes (e.g. wheelchair vehicle required), and notes for the driver. This feature is useful in several scenarios:



- When a driver has picked up and other people are waiting. This might apply at a bus terminal.
- When a passenger is being dropped off and asks to be picked up sometime later.
- When a driver drives past a person trying to hail a taxi. A booking can be created for "here" so that a taxi will be dispatched.
- When the driver wants to enter a private job in order to use DocketKiller see section 5.

4.5. Internet bookings using ExpressBooker

ExpressBooker is a system that allows clients to book a vehicle over the internet. It can be used in one of two ways:

- Registered users can make and change or cancel their own bookings.
- Non-registered users can make bookings but need to call the base to make changes to the booking.

The booking form is similar to that used by the base operator but with some special features:

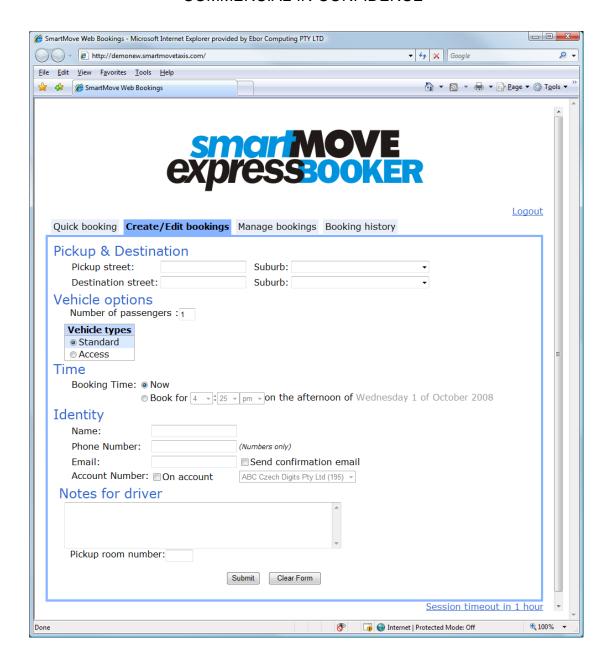
- For pre-bookings the date is shown very clearly to make sure the client is booking the vehicle for the right date and time.
- Work can be put on account if there is an account number linked to that user. A user may be linked to more than one account.
- An e-mail confirmation may be requested.
- Only known addresses can be entered. Internet users cannot enter a name that is not already in the system.

Once a web booking has been made it is treated in the same way as bookings made by the base operator.

As an option a confirmation code can be sent to the passenger's mobile phone. The booking cannot be completed until the code is entered on the booking form. This is done primarily to prevent fake bookings.

The booking form is shown below. The Quick Booking page is used when simply ordering a taxi for immediate pickup at a pre-set address.





4.6. Internet bookings using own website

Fleets with their own website can embed a SmartMove "widget" on the website to create bookings.

An example can be seen at *tareetaxis.com.au* – the fleet has developed the website but the booking form has been supplied by SmartMove.

The bookings go directly into the SmartMove job queue.

D			6		
Contact Name:			•		
Contact Phone:					
Contact Email:					
Select a pickup	address (re	quired)			¥
Select a destina	ation addres	s			Y
Pickup Time: Passengers:	Now	Please S	Specify		
Vehicle Type:	All			¥	
Any notes for the Driver.					//
Fare	Estimate	Book Y	our Taxi		

4.7. SmartHail – smartphone bookings

The SmartHail phone "app" may be used for making bookings. It allows a passenger to book a taxi and monitor the progress of the job. If preferred the booking can be made using the phone's position.

If more than one fleet services the address then the passengers is asked to choose the fleet to receive the booking. If a fleet gets a "branded" version of the SmartHail app then all bookings made with that app will go to only that fleet.

If the fleet has registered for credit card payments then passengers can pay for the trip with their app. See section 5.8 for more details.

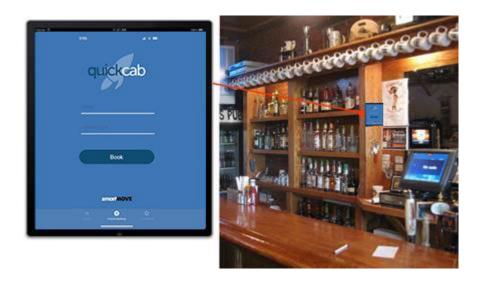




4.8. QuickCab and push button systems

There are two methods for creating an immediate booking. These are intended to be used in places where there is a high level of demand for taxis as soon as possible.

SmartMove offers the QuickCab app which can be used on an iPhone/iPad or on an Android device. QuickCab allows a name and vehicle type to be specified. Once a booking has been made it can be monitored or cancelled.



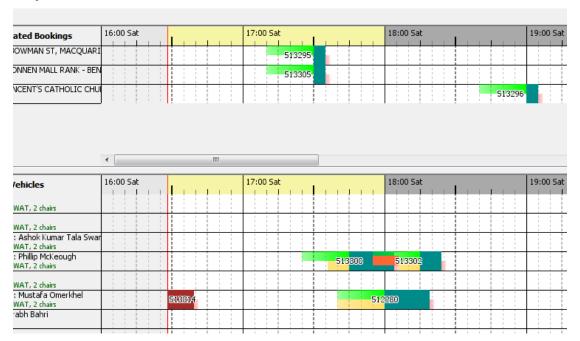
Shown here is the third-party Taxi Butler⁶ product that can be integrated with SmartMove.



⁶ Taxi Butler: See https://www.taxibutler.com/

4.9. Managed bookings

Some bookings require a higher level of control and the *managed* page in the booking software provides that fine control. It shows the unallocated jobs that are waiting and the jobs that have been allocated to cars.



In this example the unallocated work is at the top and the allocated work is at the bottom. A job can be allocated to a car by "dragging" it to the car. Similarly a job can be dragged to a different car or moved to the unallocated list. If there is an overlap it is shown in red – seen above with jobs 513300 and 513302.

This display is particularly useful for VIP bookings and wheelchair bookings. However it can be used for any situation where careful management of bookings is required.

5. SmartMove bookkeeping ('DocketKiller')

SmartMove is not just a dispatching system. It also handles the bulk of the bookkeeping associated with handling accounts and managing vehicles. This component of SmartMove is referred to as DocketKiller.

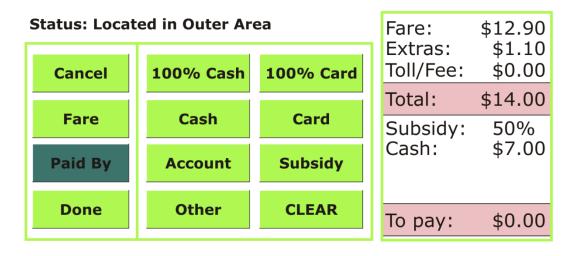
5.1. Recording fare and payment details

The key concept is that the bookkeeping can be greatly simplified if drivers record details of payment electronically as each job is completed.

The first step is to determine the amount to be paid. Normally the fare is read directly from the vehicle meter and the driver can skip this step.

Status: Located in Outer Area			Fare:	\$2.90
Cancel	Set Fare	\$2.90	Extras: Toll/Fee:	\$1.10 \$0.00
Fare	Set Extras	\$1.10	Total:	\$4.00
Paid By	Set Toll/Fee	\$0.00		
		·		
Done	Total:	\$4.00	To pay:	\$4.00

The second step is to record how the fare was paid. The choices include: cash, credit card, subsidy scheme or account. In the example below the driver has indicated that half the fare (50%) is paid by subsidy and the remaining \$7.00 has been paid by cash. Work can be put on account or multiple accounts may be used if required. Lift fees can be claimed when appropriate. Mistakes can be corrected when necessary – either by the driver or at the base.



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Another option is to allow the passenger to pay with the booking app or a pre-registered credit card – see section 5.8.

The third step is to press the "Done" button when the "To pay" amount is zero.

5.2. Generating customer invoices

Once account work is recorded in SmartMove producing invoices to customers is easy. Simply specify the period of interest and ask SmartMove to produce the invoices. An invoice can be sent by e-mail to the account holder.

An example is given in section 10.6 below.

5.3. Generating invoices from owners to fleet

If work is done on account the owners of the vehicles expect to be paid for the work. This is normally done by generating invoices to the fleet from the owners.

An example is given in section 10.7 below.

5.4. End-of-shift report

The end-of-shift report lists all the work done in a vehicle by a driver. It lists the jobs, the fares, provides a reconciliation of the cash, and calculates the income for the Bailor (owner) and the Bailee (driver). The end-of-shift report is particularly useful when the vehicle is not driven by the owner; in particular it is useful for fleet-owned vehicles or for groups of vehicles managed by a depot.

This report is useful only if all fares are recorded. An example is given in section 10.8 below.

5.5. Bailment invoice

The bailment report is a summary of the shift reports over a period of time. It is useful when preparing tax returns.

5.6. DocketKiller Options

As there is some sensitivity to collecting fare information in the vehicles, SmartMove provides some flexibility over when fare information must be entered. The typical options are:

- The fleet might mandate that all account work must be recorded in the cars. This is to reduce the effort required to produce invoices to account holders.
- The fleet might also mandate that all work must be recorded in fleet owned cars, irrespective of who is driving.
- An owner might mandate that all work done by other drivers of the vehicle must be recorded. This will allow the end-of-shift report to be used.
- An owner driver might not want to record every job and has the option not to do so. In this case the owner will not be able to use the end-of-shift report to accurately record income earned. The fleet can still mandate that account work be recorded.

5.7. Data export

Whilst SmartMove helps with the bookkeeping functions it is not an accounting system. The totals of the various invoices can be exported to a text file suitable for importing into Excel or an accounting package such as MYOB, QuickBooks or Xero.

5.8. Total Mobility payments in New Zealand

In New Zealand claims for subsidised travel under the Total Mobility scheme can be processed electronically. If the card is presented at the start of the trip the claim can be sent to the local Council for processing. This applies in areas using the Ridewise software⁷.

A card reader/printer is required for this. The reader can accept cards with a magnetic stripe and can also read contactless tap-and-go style cards.



One of the payment options presented to the driver at the end of the trip is to send the subsidy claim to Ridewise for processing. This option is available only if at least one Total Mobility card has been read. Note that more than one card may be presented if there is more than one eligible passenger. The transaction occurs when the driver uses the TMS Card option on the fare payment screen.

Cancel	100% Cash	100% Card
Fare	Cash	Card
Paid By	TMS Card	Account
Done	More >>	CLEAR

⁷ See https://www.eyede.com/ridewise/

5.9. Credit card payments

SmartMove provides three methods for billing a credit card at the end of a trip. These methods are available only if the fleet has registered for credit card payments through Stripe.

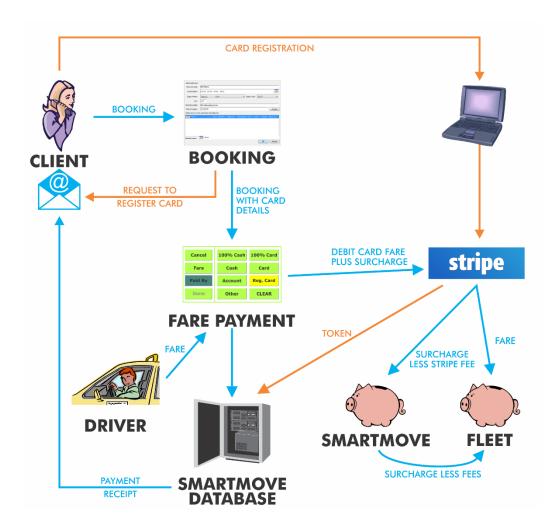
The main benefits for processing credit cards through SmartMove are:

- Drivers do not handle credit cards.
- Details of the payment are recorded with the booking and the payment is handled in the same way as other work on account.
- The fleet receives any surplus from the surcharge after fees are deducted.

Note that the card details are held by the payment provider *Stripe*. Neither the fleet nor SmartMove hold any card details

5.9.1. Operator booking

The first method applies to operator bookings.



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The steps involved are:

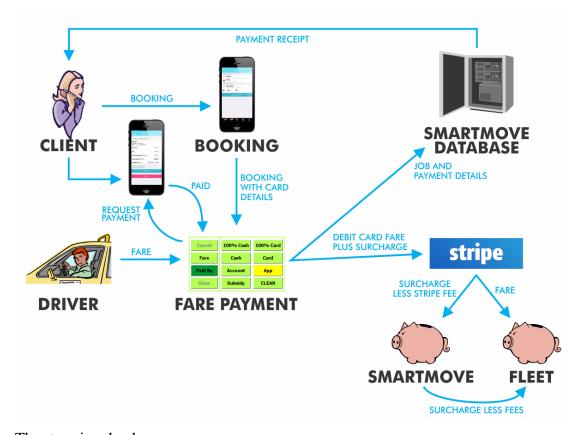
- The passenger indicates to the operator that payment by credit card is required. When the passenger's email address is entered in the booking the passenger is sent an e-mail asking for the credit card number. Note that the passenger enters the number and neither SmartMove nor the fleet ever see the number. This process is done once only.
- At the end of the trip the driver is able to bill the card provided the passenger supplies the last four digits of the card.
- Payment is made directly to the fleet and is treated like any other work on account.

Protection from fraud is provided in two ways:

- The operator and driver would have to collude to debit a card without authorisation
- All money is paid to the fleet so there is little benefit for the driver or the operator.

5.9.2. App bookings

The second method applies for bookings made with the SmartHail app (or branded equivalent) – see section 4.7



The steps involved are:

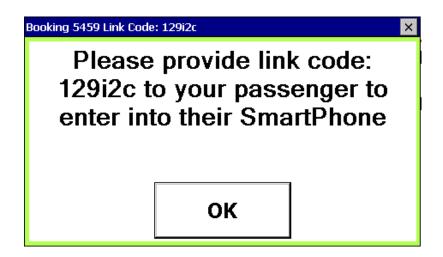
- The passenger must enter the credit card details in the app.
- At the end of the trip the driver can request payment from the app. At this point the passenger needs to approve the debit on the phone.
- The fare is paid to the fleet and an e-mail receipt is sent to the passenger.

• Payment is made directly to the fleet and is treated like any other work on account.

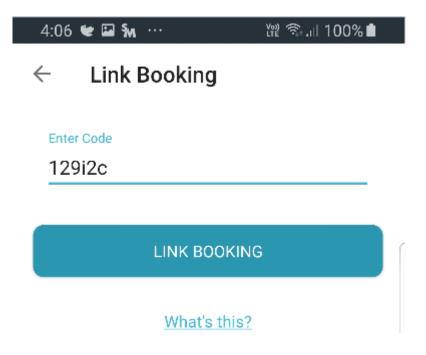
5.9.3. Pay for any ride with app

The third method for billing a credit card is available to passengers travelling in a vehicle, irrespective of how the booking was made. This applies only if the passenger has registered a credit card in the Android version of the SmartHail app (or branded equivalent).

A passenger can pay for any trip once a credit card has been registered in the app. First the passenger must ask the driver for a code. A code is then displayed to the driver.



The code is then entered into the SmartHail app. Once this is done the trip can be paid in the same way that an app booking can be paid. See section 5.9.2 above.



5.10. Account management portal

SmartMove provides a website specifically for account managers to control how their account with the fleet is used.

An account manager is able to specify who may use the account and specify constraints on how the account may be used. In particular the account manager can control:

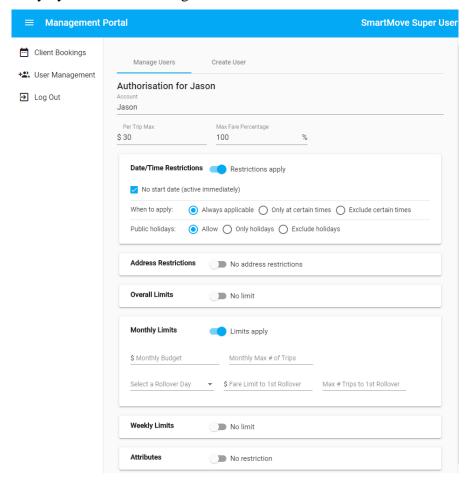
- 1. Who is allowed to create bookings (clients).
- 2. The amount that may be spent. The total spend, the spend per week or month, and the maximum amount on a trip can all be specified.
- 3. Limits on when the travel may occur.
- 4. Limits on the addresses that may be used.

Example: A business may authorise travel home after hours provided the trip is between 6pm and 11pm and the pick-up address is the business address.

In addition an account manager can view the account history and view any booking that has been billed to the account. In many cases the account holder can resolve account queries without having to bother the fleet.

An account manager can authorised clients. For larger organisations an organisational manager can be created who has the authority to create new account managers.

In future a client will be able to bill to an account using a smartphone wallet pass issued electronically by the account manager.



6. SmartMove fleet management and reporting

6.1. Tracking and mapping

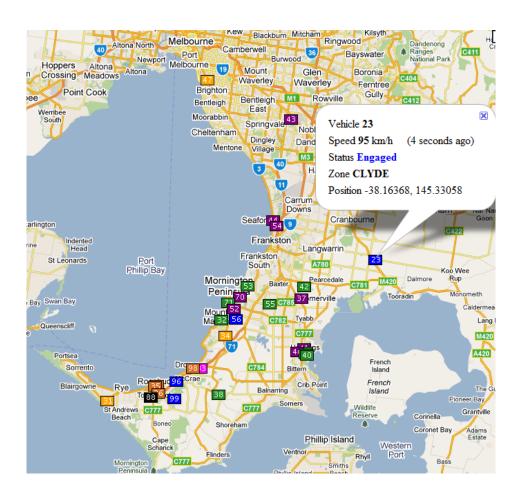
Every car reports its position periodically. If the car is stationary the car reports every minute; if the car is moving the car sends a position every 300 metres (approximately). If there has been a significant change of speed or direction these are also recorded. If the driver has triggered a panic alarm then the data is recorded every five seconds.

This information is available for display on a map which updates regularly. The map updates every 5 seconds if the mouse is moved over the map otherwise the update rate gradually slows to once every minute. The position of every vehicle is shown and colour is used to indicate the state of the vehicle (green=vacant, brown=booked, blue=engaged, etc.).

Clicking on the car number will result in the map being shifted so the car is in the centre of the map. This enables rapid location of a driver in trouble.

The example below shows the taxis operating on the Mornington Peninsula in Victoria. The vehicles regularly traverse an area that is over 100km long with regular trips to Melbourne's Tullamarine airport.

If a vehicle loses coverage the tracking data is stored and transmitted when connection is re-established. This means that the path taken by a vehicle can be reconstructed even if the vehicle was out of coverage for part of the trip.





The mapping is based on Google Maps. The operator can zoom in and out, and also pan the map.

It is also possible to overlay a satellite image to see the vehicle's position relative, to the surrounding buildings. An example is shown here.



6.2. Administration

A large amount of information is collected and recorded. This includes the position of every car along with every significant event. The data can be held indefinitely and the opportunities for analyzing this data are almost endless. Reports can be produced for the police, the regulator, the fleet manager, owners, and drivers.

Virtually all management functions are done using a web browser. Users are added, options set, recurring bookings are defined, various invoices and reports are produced. Users can be anywhere with an internet connection. A fine degree of control over access rights is provided so that individual users can be given access to specific areas.

The image below shows part of the home page for the fleet management website and the menu available. Some examples of the reports that can be generated are given in section 10 below.



Owners and depot managers can be given access to some of the reports limited to their own cars.

7. Equipment and Maintenance

7.1. Vehicle hardware (MDT)

The equipment in the vehicle consists of the following:

Components:	
1x screen and computer. This is normally mounted near the pillar next to the driver. Often referred to as the MDT = mobile data terminal.	
A combined GPS (Global Positioning System) and GPRS antenna. This is normally left on the dashboard or attached to the windscreen.	
1x Panic Switch. This is normally fitted near the steering wheel column.	
1x Meter Listening Cable + adaptor. Used to connect to the meter.	
A cable loom. Wires connect to the battery, the panic button, the meter, and the ignition power line. A second loom is required if using a card reader/printer or a second monitor for the meter built into SmartMove.	



Second monitor for meter (optional)



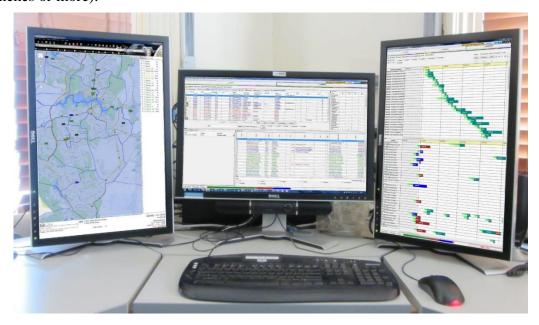
1 x Card reader/printer (optional)



Spares are provided and faulty units are simply replaced.

7.2. Base setup

The operators use standard desktop computers. An operator solely doing bookings could use a single screen computer but an operator overseeing the dispatching would find it more convenient to have at least two and possibly three-screens. It is recommended that computers have at least 8GBy and at least one large monitor (27 inches or more).





All workstations must be connected to a broadband internet link. This is done with a conventional office network. If possible two internet connections from different providers should be available in case one of the providers fails.

Most small to medium sized fleets can manage with a laptop computer with a wireless internet "dongle" when there is a power failure.

A printer is required for reports – see sections 6 and 10. A networked duplex colour printer is recommended. It is recommended that each desk be equipment with a least two network outlets and at least four power outlets. A guide to setting up a call-centre is available.

7.3. Phone interface and screen pops

If the caller's phone number (callerid) is available SmartMove will display information when a call from that caller is answered. The "screen pop" will include addresses commonly used by that caller and some bookings linked to that caller. See section 4.1 for more details. In addition, for operators that take bookings from more than one fleet, the booking form for the correct fleet is displayed. This can be done for any phone system that provides a TAPI⁸ interface.

7.4. SmartVOIX Phone System

SmartVOIX is offered as a separate product. Features offered with SmartVOIX that are not available with the TAPI interface are:

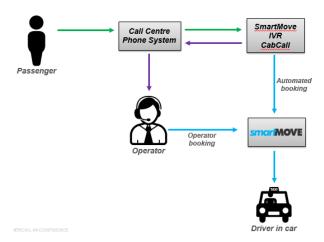
- Automated bookings (IVR). Two options are available. In the simplest form the caller is invited to "press 1 if you are ready to travel now". This uses an address assigned to that phone number. The more sophisticated form invites the user to select from a short list of addresses commonly used by that caller the first four addresses that are displayed to the operator. Thus the caller might hear "press 1 for a standard car at Bentleys Aged Care, Harpin Street now, press 2 for a car at Bridge St Med, Bridge St", etc.
- Calls are recorded and linked to bookings. The operator can rapidly replay the call(s) linked to any booking.
- Calls can be directed to another SmartVOIX system. This allows one call centre to hand over to another one whenever required without paying a redirection fee.
- Calls can be taken anywhere on the internet. This allows operators to work from home.
- Some control over the ordering of calls is provided.

SmartVOIX is a Voice-over-IP (VoIP) system based on SIP technology. It can be connected to regular analogue lines (PSTN) or ISDN lines using a separate interface box.

⁸ TAPI = Telephone Application Program Interface. This lets SmartMove connect to the phone system so that it gets the callerid whenever a call is answered. Normally the information provided is the callerid and the incoming line – the incoming line identifies which fleet has been called.



Alternatively the automated booking service built into SmartVOIX can be integrated with an existing phone system. An incoming call is first routed to the IVR system. If the caller is blocked from IVR then the call is transferred back and queued for an operator. Otherwise the caller is invited to make a booking – if this is done then the call is terminated but if no booking is created the call is passed back and queued. This process is shown in the following diagram.



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8. Maintenance

8.1. In-vehicle equipment

The lease arrangement normally used for SmartMove covers all maintenance costs. Maintenance of in-vehicle equipment is by replacement – spares are held by the fleet and any faulty units are simply replaced. This takes only a few minutes and is normally done by either an auto-electrician or by someone connected with the fleet. Anyone competent in handling electronic equipment can do the task. A website is provided for reporting that a unit is being returned and a replacement is dispatched the next working day.

8.2. Software updates

The software in the vehicles is updated remotely. The software is downloaded while the car is operating but the unit must be restarted for the new software to be installed. This is normally done remotely when the car is not operating - i.e. when no driver is logged in - or it happens by default when a driver turns the unit on at the start of a shift.

In the base, when the booking software is started – normally at the start of an operator's shift – the computer will automatically check for an update. If one is available it will be downloaded before the booking software is started. This process takes less than a minute.

All the fleet management services are provided using a standard internet browser. If the software is updated then users will automatically get the new version next time they use the page.

8.3. Support

A 24 hour support line is provided for resolving urgent operational issues. Non-urgent issues are normally handled using e-mail.

Remote desktop technology is used if an operator wants to demonstrate something to SmartMove staff. This allows SmartMove staff to see what is on the operator's computer and take control if necessary. Note that this is control is available only when started by the base operator – SmartMove staff do not normally have access to the fleet's workstations.

The vehicles keep a log of recent events that can be downloaded and investigated if necessary. Similarly the booking software also keeps logs – the operator can request that the logs be sent to SmartMove so that SmartMove staff can investigate a problem.

Some serious faults trigger an e-mail to SmartMove. In the rare cases that this happens the fault can be investigated as soon as it occurs.

8.4. Daylight saving changes

The software automatically adjusts for daylight saving.



9. Company details

SmartMove is owned and marketed by the Australian company CellTrack Systems Pty Ltd. In New Zealand SmartMove is marketed by SmartMove Systems Ltd.

Details are given below.

Company name SmartMove Systems Pty Ltd⁹ SmartMove Systems Ltd

147 Henley Beach Road

Address
Mile End South Australia 5031

Australian Business

Number (ABN)

75 110 064 036

NZ Company

number

3027125

Phone +61 8 8238 3075

NZ only: 09 281 3536

Fax +61 8 8238 3004

Managing Director Bill Cumpston

Email Bill.Cumpston@smartmovetaxis.com

Web www.smartmovetaxis.com

⁹ Company name changed from CellTrack Systems to SmartMove Systems on 1st March 2020.

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10. Sample reports

It is not possible to describe all the functions on the fleet management website in this document but examples of some of the reports that can be produced are show in the following sections.

One unusual feature of SmartMove is that performance reports are based on the time at which the taxi arrived at the pick-up location, not the time when the meter was turned on. This means that reports are not affected by the late arrival of a passenger.

The reports included are:

Section Page	Report	Description
10.1 p47-	Booking Details	The Booking Details Report gives a complete history of a booking. Details include
		Booking details (who, when, operator, etc.).
		Pick-up/destination details.
		Fare payments details.
		Significant events.
		Map showing route taken to pick-up point (brown line) and route taken when engaged (blue line).
		This report is useful for investigating complaints and for responding to police queries.
10.2	Job Totals	This report gives a summary of bookings taken over a
p49		period of time. The report can be presented in a number of ways – the bookings per driver, bookings per vehicle, etc.
		This example shows the bookings in each hour of the day.
10.3 p50	Response Time Report	This report gives a variety of booking statistics. The first page of this report gives various totals and the second page presents the information in graphical form – the last graph compares the response times for wheelchair (access) and non-wheelchair bookings.
		In this example the brown line indicates that about 50% of pre-booked non-access jobs are started on or before the time requested. The blue line shows that about 80% of ready-to-ride bookings are picked up within 12 minutes.
		The dashed line shows the performance for access (wheelchair) bookings.
		Other reports showing fleet response times are available.



Section	Report	Description
Page		
10.4	Taxi	The Taxi Availability Report shows the periods when a
p51	Availability Report	taxi is available for work. It also shows when the driver has rejected a job offer. The report was written primarily to ensure that vehicles are available for work when they should be.
10.5	Find Vehicle	The Find Vehicle Report is used when trying to determine
p52	Report	which vehicle(s) were near an address at a particular time. It is often used in response to a query from the Police.
		The example here shows that vehicle WAT928 travelled near Parliament House in Canberra between 12:00 and 13:30 on the day of interest.
		DocketKiller Reports
10.6 p53	Account holder invoice	Invoice from the fleet to an account holder listing the work done by the fleet for that account holder over some period of time.
		This example shows an account keeping fee has been added and a no-show fee applied to one job.
10.7 p54	Operator Invoice	Many fleets need to pay the vehicle owners for work done on account. This example shows the invoice from the vehicle owner for work done on account by that vehicle.
10.8	End-of-shift	Summaries the income earned by a driver on a shift.
p55-	report	Drivers may see their own end-of-shift report using the SmartDriver app or with the driver website.
		The front page gives a breakdown of the income received and calculates the driver's share.
		The second page lists the work done and the work done on account.

10.1. Sample Booking Details Report

Booking Details

Select a Fleet : Busselton Taxis

Booking Number : 904673

Search

- Booking Details

Booking Number: 904673

Created By: JANET DEVENY (j.devenny / 100445) at 2020-02-19 09:59:21

Requested Time: 2020-02-19 11:15:00

Release Time: 10 mins (originally: 30 mins)

Booking Priority: NORMAL Booked Fixed Fare: \$24.00

> Booked Travel: 0.92 km (Estimated by GPS) Engaged Travel: 1.64 km (Estimated by GPS)

No Location Dispatch: Yes

- Current Attributes

Attributes: WAT

- First Address Edit Invoice Address Manage Address GPS Position

Note this information was changed

Pickup: DOME CAFE, CENTRAL

Passengers: 1

Contact: MARGERET AND ERICA

Zone : CENTRAL Information : WAT REQ

- Final Address Edit Invoice Address Manage Address GPS Position

Destination: SOUTH STREET, CENTRAL

Zone: CENTRAL

- Booking Payment Details Edit Payment

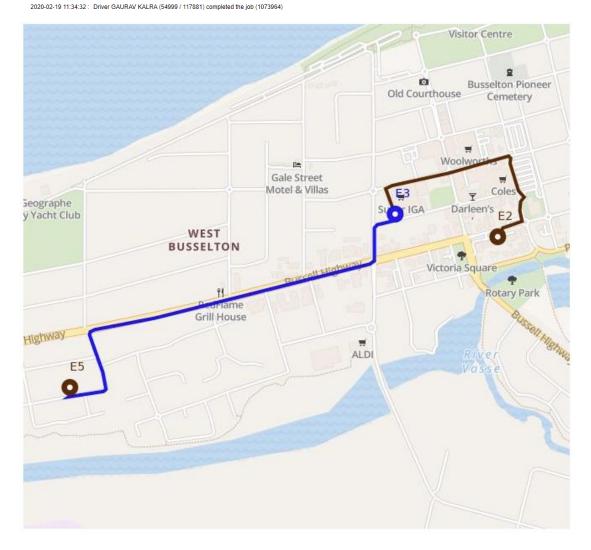
\$24.00 : Fare \$24.00 : TOTAL

\$18.00 : Paid by Subsidy \$6.00 : Paid by Cash



- Booking History and Updates

2020-02-19 09:59:21: Booking Created by JANET DEVENY (j.devenny / 100445) 2020-02-19 09:59:21: JANET DEVENY (j.devenny / 100445): Booking Created - Existing Client 2020-02-19 10:44:26: JANET DEVENY (j.devenny / 100445): Booking Updated - Fare details added: Fixed Price Fare [\$ 24.00] 2020-02-19 10:45:01: Offer (1219560) was made to driver GAURAV KALRA (54999 / 117881) of CT1123 in zone CENTRAL - Reason: Closest Vehicle Required 2020-02-19 10:45:02 : Driver GAURAV KALRA (54999 / 117881) accepted the offer (1219560) and was sent the job (1073958) 2020-02-19 10:45:30 : Driver GAURAV KALRA (54999 / 117881) resubmitted the job (1073958) with reason CHANGE JOB AND RESUBMIT (WAGON ETC) in zone CENTRAL 2020-02-19 10:45:31: GAURAV KALRA (54999 / 117881): Booking Modified by Resubmit - Release Time changed from 30 to 10 minutes. 2020-02-19 10:45:31: GAURAV KALRA (54999 / 117881): Booking Modified by Resubmit - Attributes changed from [NONE] to WAT 2020-02-19 10:51:39: Elise Burrows (ELISE.BURROWS / 119208): Booking Updated - Address changed from PICKUP; OLD COLES (BOULEVARD), CENTRAL to PICKUP: DOME CAFE, CENTRAL 2020-02-19 11:09:06 : Offer (1219566) was made to driver GAURAV KALRA (54999 / 117881) of CT1123 in zone CENTRAL - Reason: Priority (8) Booking 2020-02-19 11:09:10 : Driver GAURAV KALRA (54999 / 117881) accepted the offer (1219566) and was sent the job (1073964) 2020-02-19 11:09:15: Vehicle CT1123 - Fare Details: 904682 2020-02-19 11:19:17: Driver GAURAV KALRA (54999 / 117881) arrived at the pickup location 2020-02-19 11:20:11: Driver GAURAV KALRA (54999 / 117881) of CT1123 started the job (1073964) 2020-02-19 11:20:13 : Vehicle CT1123 - Plot: CENTRAL 2020-02-19 11:20:13: Vehicle CT1123 - Plot Hold: 904689 2020-02-19 11:20:13 : Vehicle CT1123 - Plot Hold: 904689 - Booking 904689 held for vehicle CT1123 2020-02-19 11:20:13 : Vehicle CT1123 - Plot Clear 2020-02-19 11:20:15 : Vehicle CT1123 - Plot Clear





10.2. Sample Job Totals Report

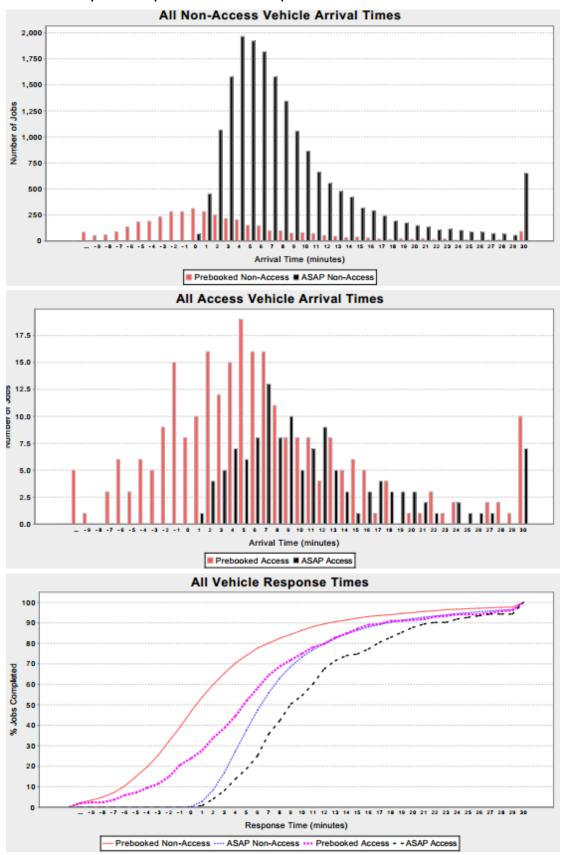
Start Time : 2020-02-13 00:00 HH:MM

End Time : 2020-02-20 00:00 HH:MM

- No Breakdown of Totals
- Breakdown Totals by Operator
- Breakdown Totals by Location
- Breakdown Totals by Driver
- Breakdown Totals by Vehicle
- Breakdown Totals by Booking Attribute (note that bookings can have multiple attributes)
- Breakdown Totals by Hourly Totals
- Breakdown Government Levies by Vehicle
- Breakdown Government Levies by Driver

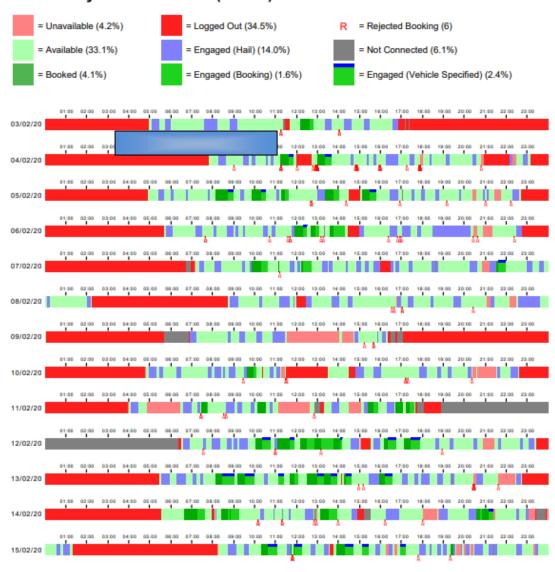
	CANCELLED	COMPLETED	HAIL	NOSHOW	TOTAL
2020-02-19 00:00 - 01:00	0	4	0	0	4
2020-02-19 01:00 - 02:00	0	5	2	1	8
2020-02-19 02:00 - 03:00	0	7	0	1	8
2020-02-19 03:00 - 04:00	1	7	2	2	12
2020-02-19 04:00 - 05:00	1	1	0	0	2
2020-02-19 05:00 - 06:00	0	8	1	0	9
2020-02-19 06:00 - 07:00	1	15	2	0	18
2020-02-19 07:00 - 08:00	0	35	11	0	46
2020-02-19 08:00 - 09:00	1	35	9	1	46
2020-02-19 09:00 - 10:00	3	46	13	0	62
2020-02-19 10:00 - 11:00	1	46	19	1	67
2020-02-19 11:00 - 12:00	4	37	23	3	67
2020-02-19 12:00 - 13:00	2	25	20	1	48
2020-02-19 13:00 - 14:00	0	35	14	2	51
2020-02-19 14:00 - 15:00	1	46	8	1	56
2020-02-19 15:00 - 16:00	6	60	2	7	75
2020-02-19 16:00 - 17:00	1	30	11	1	43
2020-02-19 17:00 - 18:00	0	21	7	9	37
2020-02-19 18:00 - 19:00	0	12	6	4	22
2020-02-19 19:00 - 20:00	0	19	4	2	25
2020-02-19 20:00 - 21:00	0	21	8	0	29
2020-02-19 21:00 - 22:00	2	15	5	1	23
2020-02-19 22:00 - 23:00	0	12	0	1	13
2020-02-19 23:00 - 00:00	0	7	0	1	8
TOTAL	24	549	167	39	779

10.3. Sample Response Time Report



10.4. Sample Availability Report

Availability - WAT905 LW2 (TX905) - 3/02/20 00:00 To 16/02/20 00:00



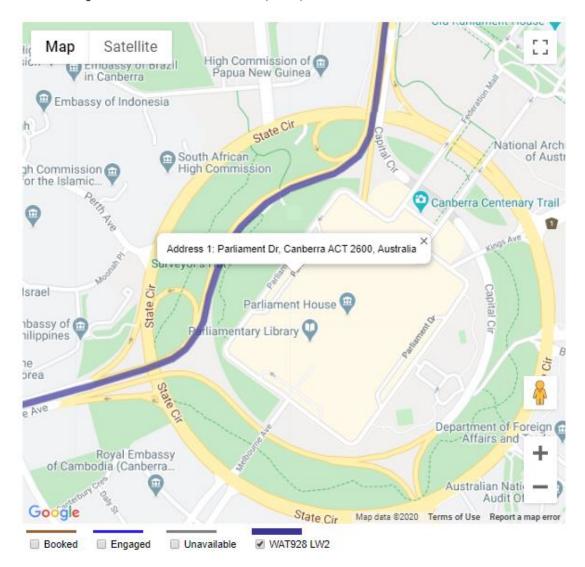
10.5. Sample Find Vehicle Report

Find Vehicle

Fleet to Search:	13WATS ▼
Address 1 (required) :	Parliament Dr, Canberra ACT 2600, Australia
Address 2 (optional) :	
Search Radius (m):	120
Search Start Time :	2020-02-20 12:00 HH:MM
Search End Time :	2020-02-20 13:30 HH:MM
Find Vehicle	

Find Vehicles with Address 1: Parliament Dr, Capital Hill ACT 2600, Australia

The following vehicles were found: WAT928 LW2 (TX928)





10.6. Sample Account Invoice



Combined Cabs Trading as Alice Springs Taxis

81 009 649 281 Po Box 1263 Alice Sprins N.T 0871 ABN: 81 009 649 281 Bookings: 8952 1877 Office: 08 8953 0979

Email: asptaxis@bigpond.net.au

Tax Invoice 1/01/20 to 31/01/20

Central Australia Retrieval Service ORG

ABN: 59410835751 GPO Box 2344 Alice Springs NT 0870 Total (inc GST): \$497.70
Includes GST of: \$45.25
Invoice Number: 03_200220
Includes Admin Fee of: \$23.70

	Date Job #	Pickup Ended	Ref # Client Name	Addresses	Fare (inc GST)
1	7/01/20 2870324	00:26 00:37	03 / RICHARD RICHARD	From: HOSPITAL MAIN ENTRANCE, TOWN To: RFDS HANGER,, AIRPORT	\$37.70
2	9/01/20 2872055	05:08 05:20	03 CONNOR	From: HOSPITAL MAIN ENTRANCE, TOWN To: RFDS HANGER,, AIRPORT	\$38.40
3	12/01/20 2875114	14:30 14:43	03 / CONNOR DAVIS KATIE	From: HOSPITAL MAIN ENTRANCE, TOWN To: RFDS HANGER,, AIRPORT	\$38.00
4	12/01/20 2875195	19:04 19:18	03 / SELOS KATIE	From: HOSPITAL MAIN ENTRANCE, TOWN To: RFDS HANGER,, AIRPORT	\$38.80
5	14/01/20 2876027	06:46 06:59	03 RICHARD	From: HOSPITAL MAIN ENTRANCE, TOWN To: RFDS HANGER,, AIRPORT	\$38.00
6	14/01/20 2876348	13:38 13:38	03 DR CHIS EDWARDS	From: HOSPITAL MAIN ENTRANCE, TOWN To: AIRPORT, AIRPORT	\$15.00 *
7	14/01/20 2876376	13:53 14:07	03 DR	From: HOSPITAL MAIN ENTRANCE, TOWN To: AIRPORT, AIRPORT	\$39.00
8	15/01/20 2876963	09:24 09:37	03 Craig Wallace	From: ALICE SPRINGS HOSPITAL, THE GAP To: RFDS HANGER,, AIRPORT	\$37.90
9	15/01/20 2877185	13:47 13:59	03 Rosa	From: ALICE SPRINGS HOSPITAL, THE GAP To: RFDS HANGER., AIRPORT	\$37.60
10	16/01/20 2878174	14:32 14:46	03 Craig	From: ALICE SPRINGS HOSPITAL, THE GAP To: RFDS HANGER., AIRPORT	\$38.20
11	17/01/20 2879118	13:47 14:00	03 Catherine	From: ALICE SPRINGS HOSPITAL, THE GAP To: RFDS HANGER., AIRPORT	\$37.30
12	21/01/20 2882465	20:08 20:21	03 / KATIE KATIE	From: HOSPITAL MAIN ENTRANCE, TOWN To: RFDS HANGER., AIRPORT	\$39.10
13	30/01/20 2890452	15:14 15:29	03 Dr Conor Davis	From: ALICE SPRINGS HOSPITAL, THE GAP To: RFDS HANGER,, AIRPORT	\$39.00
Acc	ount Keepir	ng Fee			\$23.70

* = No Show Fee



10.7. Sample Operator's Invoice



Vehicle ID: M09 Registration: T56099

Payment for Account Work

Tax Invoice 1/01/20 to 1/02/20

United Cabs

Total (inc GST): **\$287.30** Includes GST of: \$26.12

30 Marian St Mount Isa, QLD 4825 75 010 096 714

	Job#	Date	Driver	Reference	Account Name	Fare Total	Paid on Account
1	1234922	2/01/20	TESSEMA Solomon	AD13	MIBH - Mount Isa Base Hospital	\$28.20	\$28.20
2	1236673	3/01/20	TESSEMA Solomon	AD26	MIBH - Mount Isa Base Hospital	\$15.10	\$15.10
3	1237310	4/01/20	TESSEMA Solomon	AD28	MIBH - Mount Isa Base Hospital	\$11.60	\$11.60
4	1237653	6/01/20	TESSEMA Solomon	AD32	MIBH - Mount Isa Base Hospital	\$22.20	\$22.20
5	1245423	11/01/20	TESSEMA Solomon	AD93	MIBH - Mount Isa Base Hospital	\$12.90	\$12.90
6	1261899	27/01/20	SINGH Sandeep (Sunny)	AD206	MIBH - Mount Isa Base Hospital	\$26.20	\$26.20
				Subtota	I: MIBH - Mount Isa Base Hospital :	\$116.20	\$116.20
7	1216445	17/01/20	TESSEMA Solomon	SW1701	MIM EXP	\$27.80	\$27.80
8	1238787	28/01/20	SINGH Sandeep (Sunny)	JF2801	MIM EXP	\$30.50	\$30.50
					Subtotal: MIM EXP :	\$58.30	\$58.30
9	1215010	1/01/20	TESSEMA Solomon	SAM - RDU	NUKAL MURRA - G-HEALING- NUKAL MURRA	\$12.70	\$12.70
10	1215000	4/01/20	TESSEMA Solomon	SAM - RDU	NUKAL MURRA - G-HEALING- NUKAL MURRA	\$16.20	\$16.20
11	1213701	7/01/20	TESSEMA Solomon	SAM - RENAL	NUKAL MURRA - G-HEALING- NUKAL MURRA	\$10.50	\$10.50
12	1242755	13/01/20	TESSEMA Solomon	SAM - RDU	NUKAL MURRA - G-HEALING- NUKAL MURRA	\$7.30	\$7.30
13	1242705	15/01/20	TESSEMA Solomon	SAM - RDU	NUKAL MURRA - G-HEALING- NUKAL MURRA	\$12.80	\$12.80
14	1242843	18/01/20	TESSEMA Solomon	SAM - RDU	NUKAL MURRA - G-HEALING- NUKAL MURRA	\$8.80	\$8.80
15	1250942	24/01/20	SINGH Sandeep (Sunny)	SAM - RDU	NUKAL MURRA - G-HEALING- NUKAL MURRA	\$9.40	\$9.40
16	1250967	25/01/20	TESSEMA Solomon	SAM - RDU	NUKAL MURRA - G-HEALING- NUKAL MURRA	\$12.50	\$12.50
17	1260608	27/01/20	SINGH Sandeep (Sunny)	SAM - RDU	NUKAL MURRA - G-HEALING- NUKAL MURRA	\$10.70	\$10.70
			Su	btotal: NUKAL MUR	RA - G-HEALING-NUKAL MURRA :	\$100.90	\$100.90
18	1262000	25/01/20	TESSEMA Solomon	CHRISTINA HINDS	Workpac - Workpac	\$11.90	\$11.90
					Subtotal: Workpac - Workpac :	\$11.90	\$11.90

Total \$287.30



10.8. Sample End-of-shift Report



Dubbo Radio Cabs Co-operative Limited

43 983 592 901

17 Mansour Street

Dubbo NSW 2830

Bookings: 131 008

Office: (02) 6882 1911

Email: dubbotaxis@bigpond.com

End of Shift Report

Driver: Mick Miller	Vehicle: D14	(TC 422) 21/02/20 14:55 - 22/	02/20 04:41
Cash float at start of shift	0.00	Income	
Bailee rate	50%	Metered takings	679.70
Lift fee	0.00	plus Non-metered takings	15.00
Bailee lift share rate	0%	Total Income	694.70
		plus Total Tolls	0.00
Bailee toll rate	0%	Total Takings (inc. levies) less Government levies	694.70 44.00
Expenses paid by bailor	0.00	Total Takings (ex. levies)	650.70
Expenses		Total Takings (ex. levies)	030.70
Zaponoso		Cash reconciliation	
Item Paid By	Payor Amount	Total Takings	694.70
	Total 0.00	less Account jobs (MA + NA)	-30.00
Lift Fees		less Credit dockets (MC + NC)	0.00
Number of Lift Fees	0	less Subsidy (MS + NS) less Expenses initially paid by bailee	-10.80
Total amount for Lift Fees	_	plus Cash float at start of shift	0.00
	0.00	Cash at end of shift (inc. float)	653.90
Missed Income Opportunities		· · ·	000.00
Number Reject/Resubmit		Shift Statistics	
Value of Reject/Resubmit	Jobs \$221.70	Odometer at the start:	449410
Driver 5 Star Rating		Odometer at the end:	449813
Driver 12 Mth Avg Rating	5	Odometer shift distance:	403
Fleet 12 Mth Avg Rating	4.93	Total Jobs:	40
		\$ per Kilometer:	\$1.61
Bailee		Bailor	
Net Income (50%)	325.35	Net Income (50%)	325.35
Share of lift fees	0.00	Share of lift fees	0.00
Share of tolls	0.00	Share of tolls	0.00
Bailee's Income	325.35	Bailor's income	325.35
Expenses	0.00	Evnences	0.00
		Expenses Government Levies	0.00 44.00
		Cash to Bailor (inc float)	328.55



Special Jobs MA = metered account

NS = non-metered subsidy NX = non-metered cash NX = non-metered cash

NA = non-metered account

NA = non-metered account MS = metered subsidy MC = metered credit docket NC = non-metered credit docket

MS = metered subsidy

MO = metered other (see detail) NO = non-met other (see detail)

Booking	Detail	NX	MA	NA	MC	NC	MS	NS	МО	NO
4474034	71001005						10.80			
4474270	4851		15.00							
4474459	4851			15.00						
	Totals	0.00	15.00	15.00	0.00	0.00	10.80	0.00	0.00	0.00

Job Summary

H = Hail B = Booked * = Levy not applied

	Booking ID		Date	Start	End Time	Lift Fee	Fare \$	Extras \$	Toll \$	Total \$	Paid \$	Tip \$
1	4473932	В	21/02/20	15:19	15:29	0	21.40	2.30	0.00	23.70	23.70	0.00
2	4473966	В	21/02/20	15:36	15:50	0	20.20	2.30	0.00	22.50	22.50	0.00
3	4473989	В	21/02/20	15:56	16:03	0	16.40	2.30	0.00	18.70	18.70	0.00
4	4474034	Н	21/02/20	16:14	16:25	0	19.30	2.30	0.00	21.60	21.60	0.00
5	4473993	В	21/02/20	16:36	16:51	0	15.40	2.30	0.00	17.70	17.70	0.00
6	4474061	Н	21/02/20	16:51	16:57	0	12.50	2.30	0.00	14.80	14.80	0.00
7	4474056	В	21/02/20	17:02	17:07	0	11.60	2.30	0.00	13.90	13.90	0.00
8	4474027	В	21/02/20	17:13	17:20	0	14.20	2.30	0.00	16.50	16.50	0.00
9	4474104	Н	21/02/20	17:35	17:38	0	7.50	1.10	0.00	8.60	8.60	0.00
10	4474106	В	21/02/20	17:49	17:51	0	7.20	2.30	0.00	9.50	9.50	0.00
11	4474121	В	21/02/20	18:01	18:06	0	10.90	2.30	0.00	13.20	13.20	0.00
12	4474144	Н	21/02/20	18:14	18:18	0	9.70	2.30	0.00	12.00	12.00	0.00
13	4474158	В	21/02/20	18:37	18:44	0	16.70	2.30	0.00	19.00	19.00	0.00
14	4474185	В	21/02/20	18:54	18:57	0	9.00	2.30	0.00	11.30	11.30	0.00
15	4474197	В	21/02/20	19:08	19:14	0	15.80	2.30	0.00	18.10	18.10	0.00
16	4474209	В	21/02/20	19:23	19:37	0	24.20	2.30	0.00	26.50	26.50	0.00
17	4474226	В	21/02/20	19:43	19:48	0	12.20	2.30	0.00	14.50	14.50	0.00
18	4474230	В	21/02/20	19:53	20:03	0	19.10	2.30	0.00	21.40	21.40	0.00
19	4474270	В	21/02/20	20:24	20:33	0	19.10	2.30	0.00	21.40	21.40	0.00
20	4474285	В	21/02/20	20:53	20:57	0	10.40	2.30	0.00	12.70	12.70	0.00
21	4474343	В	21/02/20	22:13	22:18	0	12.30	2.30	0.00	14.60	14.60	0.00
22	4474364	Н	21/02/20	22:24	22:26	0	7.90	2.30	0.00	10.20	10.20	0.00
23	4474394	Н	21/02/20	22:53	22:58	0	13.00	2.30	0.00	15.30	15.30	0.00
24	4474401	В	21/02/20	23:00	23:06	0	16.50	2.30	0.00	18.80	18.80	0.00
25	4474430	В	21/02/20	23:26	23:38	0	23.80	2.30	0.00	26.10	26.10	0.00
26	4474459	Н	21/02/20	23:43	23:48	0	15.00	0.00	0.00	15.00	15.00	0.00
27	4474537	В	22/02/20	00:54	00:58	0	11.50	2.30	0.00	13.80	13.80	0.00
28	4474551	Н	22/02/20	01:03	01:07	0	12.00	2.30	0.00	14.30	14.30	0.00
29	4474564	Н	22/02/20	01:15	01:22	0	17.10	2.30	0.00	19.40	19.40	0.00
30	4474571	В	22/02/20	01:27	01:36	0	22.30	2.30	0.00	24.60	24.60	0.00
31	4474611	Н	22/02/20	02:04	02:11	0	17.70	2.30	0.00	20.00	20.00	0.00
32	4474626	Н	22/02/20	02:18	02:23	0	10.40	2.30	0.00	12.70	12.70	0.00
33	4474642	Н	22/02/20	02:35	02:46	0	24.80	2.30	0.00	27.10	27.10	0.00
34	4474683	Н	22/02/20	03:08	03:15	0	16.90	2.30	0.00	19.20	19.20	0.00
35	4474682	В	22/02/20	03:22	03:32	0	18.90	2.30	0.00	21.20	21.20	0.00
36	4474714	В	22/02/20	03:39	03:41	0	7.70	2.30	0.00	10.00	10.00	0.00
37	4474717	В	22/02/20	03:44	03:50	0	17.70	2.30	0.00	20.00	20.00	0.00
38	4474722	В	22/02/20	04:00	04:05	0	10.70	2.30	0.00	13.00	13.00	0.00
39	4474727	В	22/02/20	04:09	04:15	0	14.30	2.30	0.00	16.60	16.60	0.00
40	4474729	В	22/02/20	04:21	04:31	0	22.90	2.30	0.00	25.20	25.20	0.00
			Totals	for 40 J	obs	0	606.20	88.50	0.00	694.70	694.70	0.00

Account Summary

Account	Account Total	Booking ID	Job Reference	Job Amount
Subsidy Voucher (71001005)	10.80	4474034		10.80
CLUB DUBBO (West Dubbo Bowling Club)	30.00	4474270	29540	15.00
(4851)		4474459	29547	15.00