

The DOG™ – User Manual

Contents

FCC NOTICES	4
YOUR NEW DOG	5
UNPACKING.....	6
IDENTIFYING COMPONENTS	7
PRODUCT FEATURES	8
CONNECTING THE MASTER.....	9
Selecting a Location	9
Placing the Antenna	9
Testing the System	9
CONNECTING THE APS	10
INSTALLING THE SOFTWARE	12
DOGMaster Service	12
DMSInterface Service	13
Updater Service	14
RFID Workstation Setup	15
CONFIGURING THE SYSTEM.....	16
Web Application.....	16
Logging In.....	16
Setting Up Employees	16
Setting Up Dealer Tags.....	19
Setting Up Vehicle Keys.....	20
OPERATING THE DOG.....	22
General Operations	22
Logging In.....	22
Logging Out.....	22
Departments.....	22
General Layout	22
Setting the Department	23
Viewing the Check Out Details	23
Managing Departments	24
Department Details	26
Switching Locations.....	27
Filtering Vehicles by Site.....	27
Changing the Default Site	28
Vehicle Inventory	28

The DOG™ – User Manual

General Layout	28
Searching and Filtering	28
Selecting a Vehicle	29
Checking a Vehicle Out.....	29
Checking a Vehicle In.....	30
Transferring to Department	31
Mark Inactive.....	32
Change RFID	33
Remove RFID	33
Transfer RFID	33
Show Vehicle Details	34
Check Out Activity.....	35
Attachments	36
Alert Activity	37
APS Activity	38
Information Available	38
Reports	39
Customers	39
General Layout	40
Searching and Filtering.....	40
Customer Details.....	40
APS.....	41
General Layout	41
Searching and Filtering.....	42
Linking to a Vehicle.....	42
Unlinking from a Vehicle.....	44
Assign RFID.....	45
Mark Inactive.....	45
APS Details.....	45
APS Activity	45
Dealer Tags	46
General Layout	46
Searching and Filtering.....	47
Add New	47
Tag Details	48
Check Out History	48
Wholesale.....	49
Viewing Vehicles Assigned to Wholesale	49

The DOG™ – User Manual

Checking Vehicles Out to Wholesale	51
Vendors.....	52
Vendor List	52
Vendor Details	52
Vehicles Out	53
Employees.....	53
Employee List	54
Timesheet Report	54
Employee Details	55
Company Account	56
General Layout	56
Express Checkout.....	57
General Layout	57
Vehicles on Floorplan	58
Vehicle Floorplan List	58
Vehicle Details	59
Adding Vehicles to List	60
Edit Floorplan	60
Remove Floorplan	61
Alerts	62
General Layout	62
Searching and Filtering	63
Deactivating Alerts	63
Vehicle Alert Activity.....	63
APPENDIX A	65
Master Radio Specifications	65
APPENDIX B	66
APS Specifications	66
Normal Operation	66
Alarm Conditions.....	66
General Transmission Operation	66
APPENDIX C	68
TROUBLESHOOTING	68
Vehicle Not Reporting.....	68

The DOG™ – User Manual

FCC NOTICES

Master Radio Model: M0714M3

FCC ID: 2ADCCM0714M3

APS Model: M112PB

FCC ID: 2ADCCM112PB

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

- This device may only be used with the approved antenna that is shipped with the unit and installed per the installation instructions. The use of any other antennas will invalidate the units' FCC Part 15 certifications.
- To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication. Operating the device with the supplied antenna will ensure that this requirement is met.

This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. A separation distance of 20 cm should be observed to maintain compliance with the FCC's RF exposure guidelines set out in OET Bulletin 65.

The DOG™ – User Manual

YOUR NEW DOG

Congratulations on purchasing your new Device On Guard (The DOG™) and APS Asset Positioning Sensor™ (APS) system. It has been designed to help you protect and maintain your vehicles. It is capable of monitoring your vehicles 24 hours a day, 7 days a week and automatically notifying you by text message (SMS) of potential problems within seconds. With this system in place, the most recent status of The DOG™-protected vehicles is available at the click of a button from anywhere in the world.

The DOG™ – User Manual

UNPACKING

After unpacking, make sure the following items are included in the box and are in good condition:



Figure 1-1: The DOG™ package contents

If you find that any item is missing or appears to be damaged, please contact your sales representative.

IDENTIFYING COMPONENTS



Figure 1-2: Master radio diagram

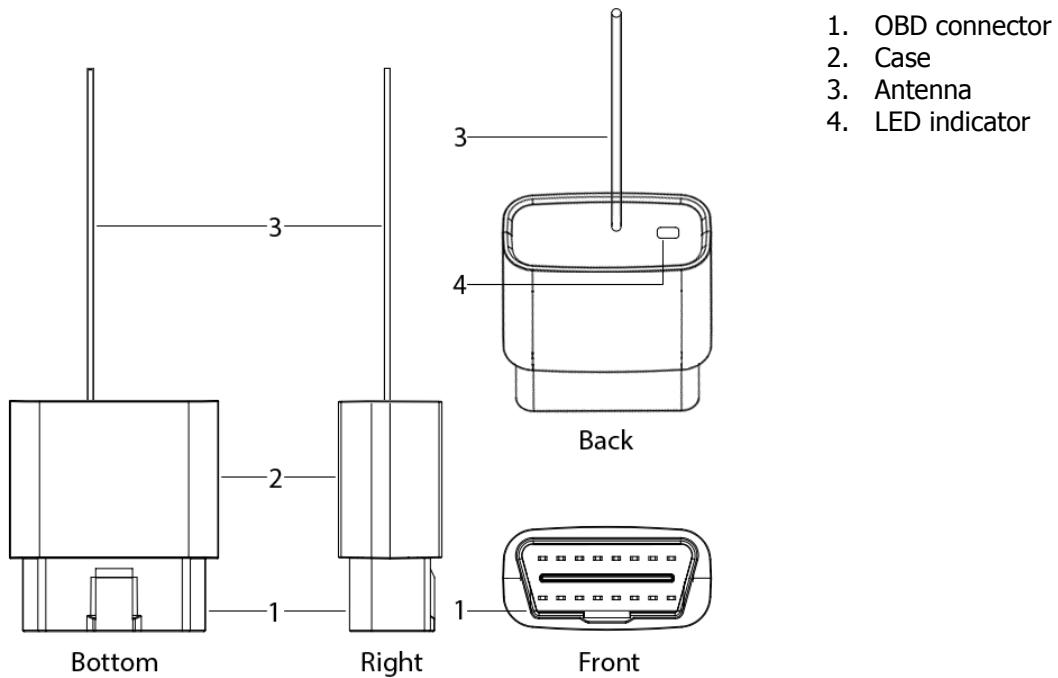


Figure 1-3: APS diagram

The DOG™ – User Manual

PRODUCT FEATURES

- 24/7 world-wide access to check on your The DOG™-protected vehicles
- 1250 foot line of sight (LoS) range with minimal external interference to cover nearly any size lot
- Low power consumption while plugged into vehicle allowing the units to be left plugged in without draining your batteries
- Text message (SMS) alerts for critical vehicle events so you can respond within seconds
- Obtain vehicle information such as diagnostic trouble codes, fuel level (on supported vehicles), and battery life so you can increase the odds that the vehicle will start for the customer

CONNECTING THE MASTER

Selecting a Location

Test the location for external radio frequency (RF) interference prior to installing the system.

The Master should be located within 1250 feet of all required monitoring points on the lot. If large obstructions prevent LoS at certain locations, range may be reduced at those points.

Placing the Antenna

When installing the antenna indoors, it should be placed 10 feet off the ground and in a centrally located building. If necessary, obtain a longer USB cable with the required micro-USB connector. The included antenna should be securely fastened to the antenna connector on the 3DR radio unit (Master).

Remove all obstructions between the Master and all required vehicle locations if possible to ensure adequate signal strength.

Testing the System

The micro-USB connector on the USB cable should be plugged into the micro-USB port on the Master. The other end of the USB cable includes a standard USB connector that should be plugged into the computer. If the computer is not on, power it up. After the computer is on, the LED on the Master will be red. After two seconds the LED will turn green.

Run the PC test software and then install an APS into a vehicle. When it has been plugged in, the LED will turn on when transmitting and then turn off quickly when it gets a response from the Master. The LED will stay on for 2 seconds and repeat 3 times if it does not reach or hear Master response. Start the vehicle and then check the PC test software to ensure the vehicle is visible. If there is no visible response, please refer to the Troubleshooting section.

The vehicle should be driven to the furthest points on the entire lot to confirm reception at each point. If there is any point that the APS cannot be detected from, then additional steps will need to be taken to determine how to mitigate the issue. If reception is successful from the furthest points on the lot and locations hidden behind large obstructions, then the installation has been completed.

CONNECTING THE APS

The APS is designed to work on all 1996 and newer OBD-2-compliant cars, trucks, SUVs, and minivans manufactured for use inside the United States. There are a small number of makes and models that do not adhere to the SAE J1962 standard that may require a special adapter cable.

Locate the OBD-2 port on the vehicle. Note that in some vehicles, the port is upside down. The OBD-2 port connector should look like the following:

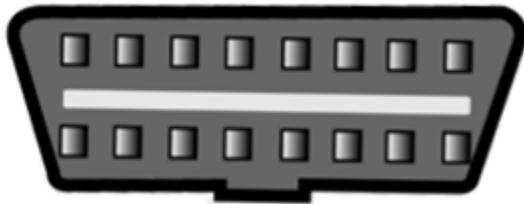


Figure 1-4: OBD-2 port

Some manufacturers such as Ford, BMW, and Mercedes cover the connector with a hinged door or rubber cover. In those cases, open the cover or door and plug in the device. The most common OBD-2 port location is under the dashboard.



Figure 1-5: Common OBD-2 port location

Less common OBD-2 port locations are as follows:

- Right side of steering column

The DOG™ – User Manual

- Behind fuse box panel or coin box
- Top instrument panel
- Under dash parcel tray
- Inside glove box
- Behind ash tray
- Near hand break

The DOG™ – User Manual

INSTALLING THE SOFTWARE

Before installing the software, obtain the CustomerID, SiteID, and database server settings from a Stay Secure Systems Customer Support Representative for the location where the software will be installed. These settings will be used to connect to The DOG™ database server and uniquely identify the location along with the external IP address. The representative should also supply you with all necessary software to install the system.

DOGMaster Service

The DOGMaster Service is a Windows-based service that communicates with the APS at your locations and records vehicle and APS data to the database server. The service should be installed on a Windows-based system with at least one available USB port to accommodate the Master radio. Only one system per location running the DOGMaster Service is required.

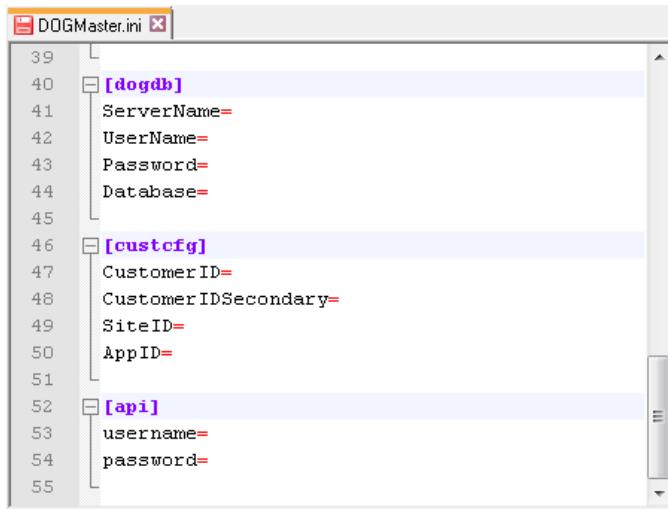
To install the service, please follow the steps listed below:

1. Plug the Master into a USB port on the designated DOGMaster server. Windows should install the driver automatically.
2. Run the DOGMasterSetup.msi installation program on the DOGMaster server. Use the default installation folder settings.



3. Navigate to the installation folder and update the DOGMaster.ini configuration file with the settings obtained from Customer Support.

The DOG™ – User Manual



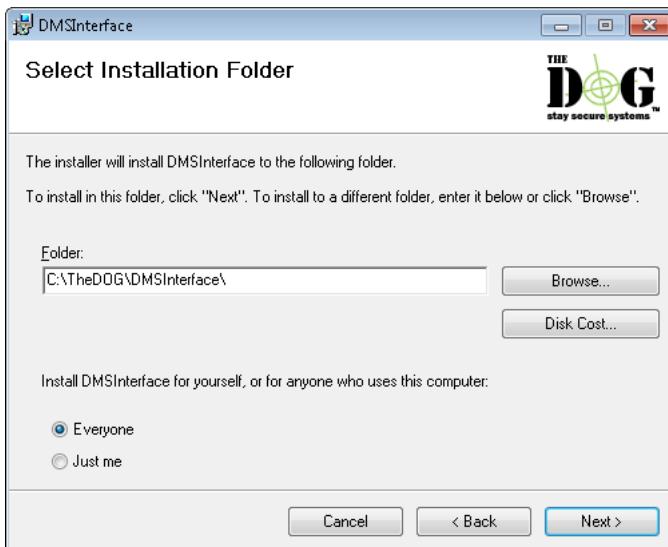
```
39
40 [dogdb]
41 ServerName=
42 UserName=
43 Password=
44 Database=
45
46 [custcfg]
47 CustomerID=
48 CustomerIDSecondary=
49 SiteID=
50 AppID=
51
52 [api]
53 username=
54 password=
55
```

4. Start the DOGMaster service or reboot the computer and check the DOGMaster.log located in the installation folder to ensure the service is running without any errors. If an error is encountered, please contact Customer Support for assistance.

DMSInterface Service

The DMSInterface Service is a Windows-based service that synchronizes your Dealer Management System (DMS) vehicle inventory with the database server. The service should be installed on the same system hosting your DMS database or a Windows-based system located on the same physical network as your DMS. Only one DMSInterface is needed per customer DMS database.

1. Verify your DMS is supported. If your DMS is currently unsupported, then a DMSInterface may be created for it.
2. Run the DMSInterfaceSetup.msi installation program on the DMS server. Use the default installation folder settings.



The DOG™ – User Manual

3. Navigate to the installation folder and update the DOGMaster.ini configuration file with the settings obtained from Customer Support.

```
DMSInterface.ini
1 [init]
2 SyncInterval=900
3 DelUnverified=1
4 HrSyncStart=6
5 HrSyncStop=19
6
7 [dmsdb]
8 DmsName=
9 DmsVersion=
10 DmsDbPath=
11 ServerName=
12 Database=
13 UserName=
14 Password=
15 TrustedConnection=1
16
17 [dogdb]
```

4. Start the DOGMaster service or reboot the computer and check the DMSInterface.log located in the installation folder to ensure the service is running without any errors. If an error is encountered, please contact Customer Support for assistance.

Updater Service

The Updater Service is a Windows-based service that keeps The DOG™-based software automatically updated. The service should be installed on all servers running the DOGMaster and DMSInterface Services.

1. Run the DOGUpdaterSetup.msi installation program on the DOGMaster server. Use the default installation folder settings.



The DOG™ – User Manual

2. Check the DOGUpdater.log located in the installation folder to ensure the service is running without any errors. If an error is encountered, please contact Customer Support for assistance.

RFID Workstation Setup

RFID readers should be plugged into all Windows-based workstations in order to allow scanning RFID cards. If the user will only be viewing data, then an RFID reader is not required. All workstations should have Internet access.

Plug the RFID reader into an available USB port. The driver should automatically be installed by Windows. If the driver does not successfully install, then the reader should be unplugged, the MX5UtilitySetup.exe should be installed, and then the reader should be plugged back in.

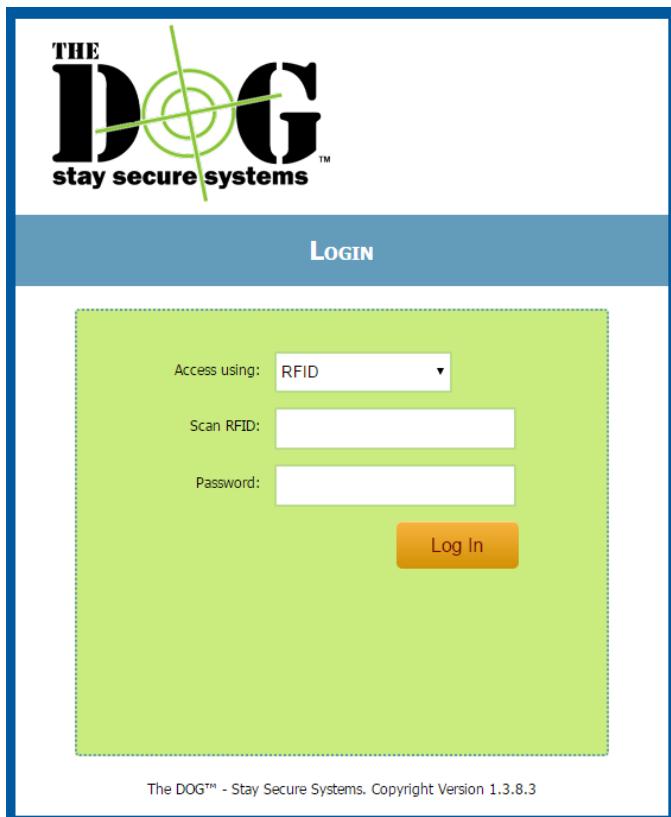
CONFIGURING THE SYSTEM

Web Application

Navigate to <https://dealer.deviceonguard.com/> to arrive at the main web application.

Logging In

1. Scan your RFID to validate your user name or optionally change the [Access using] dropdown to "Email Address" and enter your registered email address.
2. Enter your password and left click the [Log In] button or press the [Enter] key on your keyboard.



Setting Up Employees

1. Navigate to Management > Employees and click [Add New].

The DOG™ – User Manual

The screenshot shows the DOG software interface. At the top right, there is a site information block for 'Dennys' located at 4829 Palm Beach Blvd, Fort Myers FL 33905, with phone number (239) 694-8080. It includes links for 'Switch Site', 'Set Department', and 'Log Out'. Below this is a navigation bar with tabs: Vehicle Inventory, Reports, Customers, Management (which is highlighted in green), and Tools. A red box highlights the 'Management' tab. To the right of the tabs, there is a red button with '29 Alerts !'. Under the 'Management' tab, the 'Employees Management' section is displayed. It features search and filter options ('Search by Employee RFId: scan RFID' and 'Filter by Role: [All]') and a table of employee data. A red callout bubble labeled 'Click Here' points to the 'Add New' button in the 'Actions' column of the table.

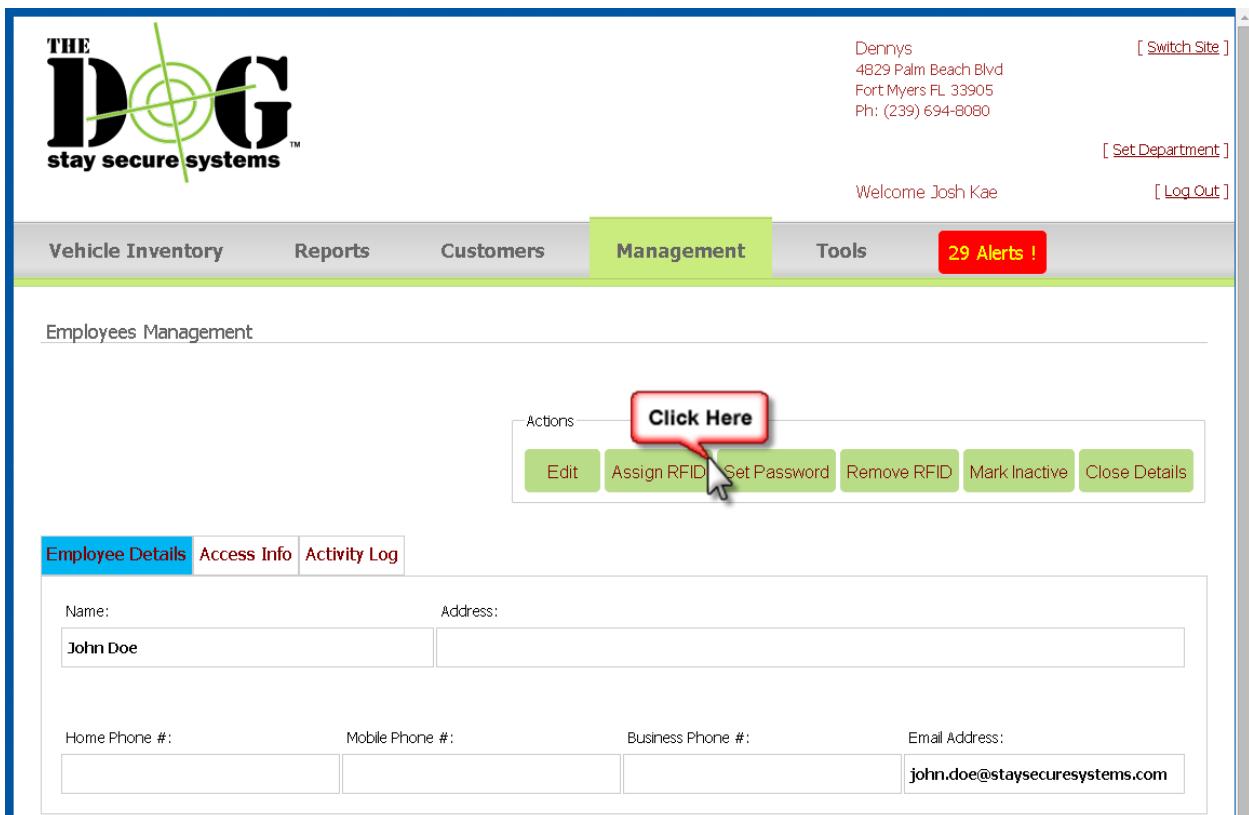
Name	Phone	Email	Primary Site	Role	Last Access
Noe Pena			Dennys	Salesman	7/31/2014 8:10 AM
CHIP BURTON			Dennys	Salesman	5/22/2014 2:39 PM
JAMES ASTA			Dennys	Salesman	5/21/2014 5:31 PM
JAMES JOSEPH			Dennys	Salesman	5/21/2014 2:39 PM

- Fill in the employee details. All fields marked with an "*" are required. Click [Save] when finished.

The screenshot shows the DOG software interface with the 'Adding New Employee' form open. At the top right, there is a site information block for 'Dennys' located at 4829 Palm Beach Blvd, Fort Myers FL 33905, with phone number (239) 694-8080. It includes links for 'Switch Site', 'Set Department', and 'Log Out'. Below this is a navigation bar with tabs: Vehicle Inventory, Reports, Customers, Management (which is highlighted in green), and Tools. A red box highlights the 'Management' tab. To the right of the tabs, there is a red button with '29 Alerts !'. Under the 'Management' tab, the 'Employees Management' section is displayed. A red callout bubble labeled 'Click Here' points to the 'Add New' button in the 'Actions' column of the table. The 'Adding New Employee' form contains fields for Employee Name (First Name and Last Name), Default Site (Dennys), Role (Manager), Address, City, State, Zip Code, Email Address, Home Phone, Mobile Phone, and Business Phone. At the bottom right of the form are 'Save' and 'Cancel' buttons.

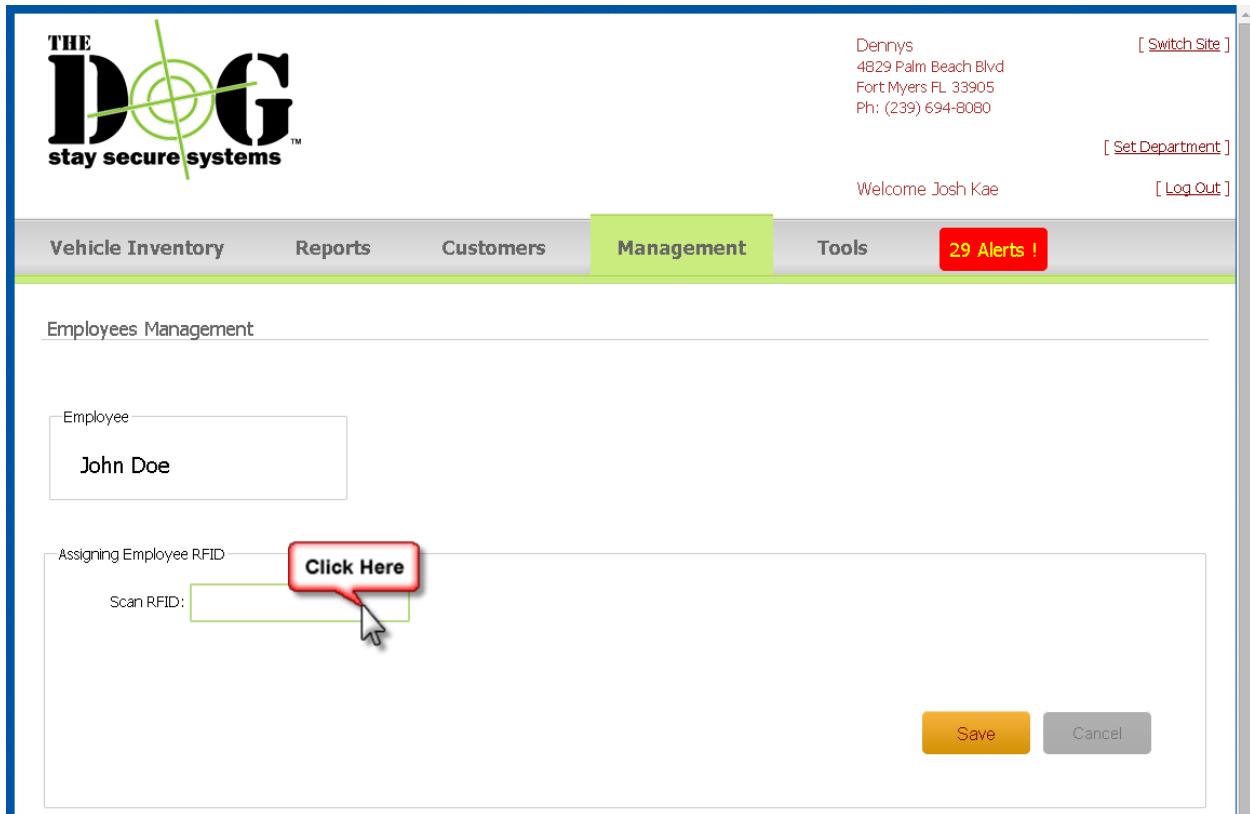
The DOG™ – User Manual

3. Click on the employee name in the employee list.
4. Click [Assign RFID].



5. Click in the [Scan RFID] field to select it and then scan the RFID to be assigned.

The DOG™ – User Manual



6. Click the [Set Password] button and enter the new password as required. When finished, click [Close] to return to the Employees Management screen.
7. Give the RFID to the employee. The RFID should be permanently attached to their key chain.

Setting Up Dealer Tags

Before setting up the dealer tags in the system, ensure all of them have the proper type of RFID permanently affixed.

1. Navigate to Management > Dealer Tags and click [Add New].

The DOG™ – User Manual

Dealer Tag Management

Search by: Tag: [] Tag RFId: [scan RFID] Filter by: Status: [All Active]

Tag	Tag RFId	Employee	Status	Out Date	Due Date
PE611E	Not Assigned		Available		
PE610E	Assigned		In Use - Stock No. 15442A - 2010 NISSAN ALTIMA - Dennis Hampton	9/19/2014	9/20/2014
PE609E	Assigned		Available		
PE608E	Assigned		Available		
PE607E	Assigned		In Use - Stock No. 15059 - 2003 Jeep Liberty - Noe Pena	11/12/2014	11/13/2014
PE174A	Assigned		In Use - Stock No. 15283B - 2000 CHEVROLET S-10 - Denny Hampton	10/27/2014	10/28/2014
PCO63G	Assigned		In Use - Stock No. 15440 - 2009 MERCURY MARINER - Dennis Hampton	11/3/2014	11/4/2014

- Enter the dealer tag name and scan the RFID. Optionally assign the dealer tag to an employee.

Dealer Tag Management

Adding Dealer Tag

Dealer Tag Name: [] Scan Tag RFId: [] Employee: [Select One]

Save **Cancel**

Setting Up Vehicle Keys

Before setting up the vehicle keys in the system, ensure all of them have the proper type of RFID attached to the key ring.

- From the Vehicle Inventory screen, view the vehicle details by clicking on the “...”

✓	✓	15186	2008	Nissan	Altima	4DSN	BLU	62023	Dennys	In				1	1	12.62	4.71	12	0	!
✓	✓	15428	2012	Nissan	Altima	4dr Sed	RED	46158	Dennys	In				4	12.09		12			
✓	✓	15426	2012	Nissan	Altima	4dr Sed	GRY	58205	Dennys	In				0	12.45		6			
		15508A	2005	NISSAN	ALTIMA	4DR SED		229723	Dennys	In										
✓	✓	15455	2013	Dodge	Avenger	4dr Fro	SIL	37292	Dennys	In				2	4	12.56		3	0	!
✓	✓	15515	2010	DODGE	AVENGER	4DR R/T	BLK	69303	Dennys	In				2	12.49		2	0	!	
✓	✓	14855	2012	Dodge	Avenger	4dr Fro	BLK	34589	Dennys	In				2	4	12.38	20.00	0	0	...
✓	✓	15392	2009	CHEVROLET	AVEO	4DR LT	RED	122329	Dennys	In				4	12.22	3.92	1	2	...	

The DOG™ – User Manual

2. Click [Assign RFID].

Vehicle Inventory

Reports Customers Management Tools 72 Alerts !

1 Vehicle Found

K	P	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD#	Days	Balt	FuelOp	Last	DTC	...
		15508A	2005	NISSAN	ALTIMA	4DR SED		229723	Dennys		In									...

Actions

Check Vehicle Out Transfer Vehicle to Dept Edit Veh Details Mark Inactive Assign RFID Close

Check Out Activity Vehicle Details Attachments Security

There is no Check Out history

Comments Add Comment

3. Scan the key RFID and click [Save].

Vehicle Inventory

Reports Customers Management Tools 72 Alerts !

1 Vehicle Found

K	P	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD#	Days	Balt	FuelOp	Last	DTC	...
		15508A	2005	NISSAN	ALTIMA	4DR SED		229723	Dennys		In									...

Actions

Check Vehicle Out Transfer Vehicle to Dept Mark Inactive Show Vehicle Details Close

Assigning Key RFID

Scan new Key RFID:

Save Cancel

OPERATING THE DOG

Listed below are instructions for operating The DOG™ system. The system has been designed to be simple and effective.

General Operations

Navigate to dealer.deviceonguard.com to arrive at the main web application. The following instructions assume you have "Manager"-level permissions. If you need assistance or have questions, please contact Customer Support.

Logging In

Please see the instructions posted under [Configuring the System](#). The default screen displayed upon successfully logging in is the Vehicle Inventory list.

Logging Out

When finished in the system, click the [Log Out] link located in the top right corner of the screen. The system will log you out and record the date and time.

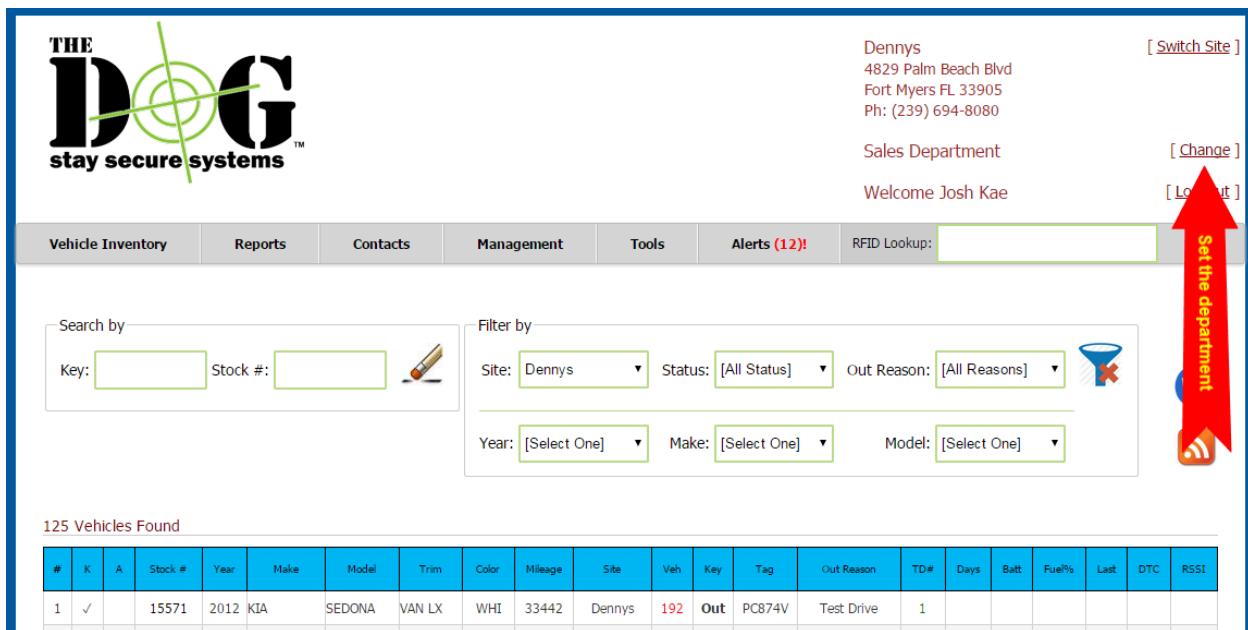
Departments

Follow the instructions listed below to set the department where the workstation is located. This feature will allow you to specify with greater detail where your vehicles are located within a specific site when transferring vehicles between departments (Internal Transfer).

General Layout

The currently selected department is listed in the top right corners of the application. The [Change] option allows the user to quickly set or edit the selected department.

The DOG™ – User Manual

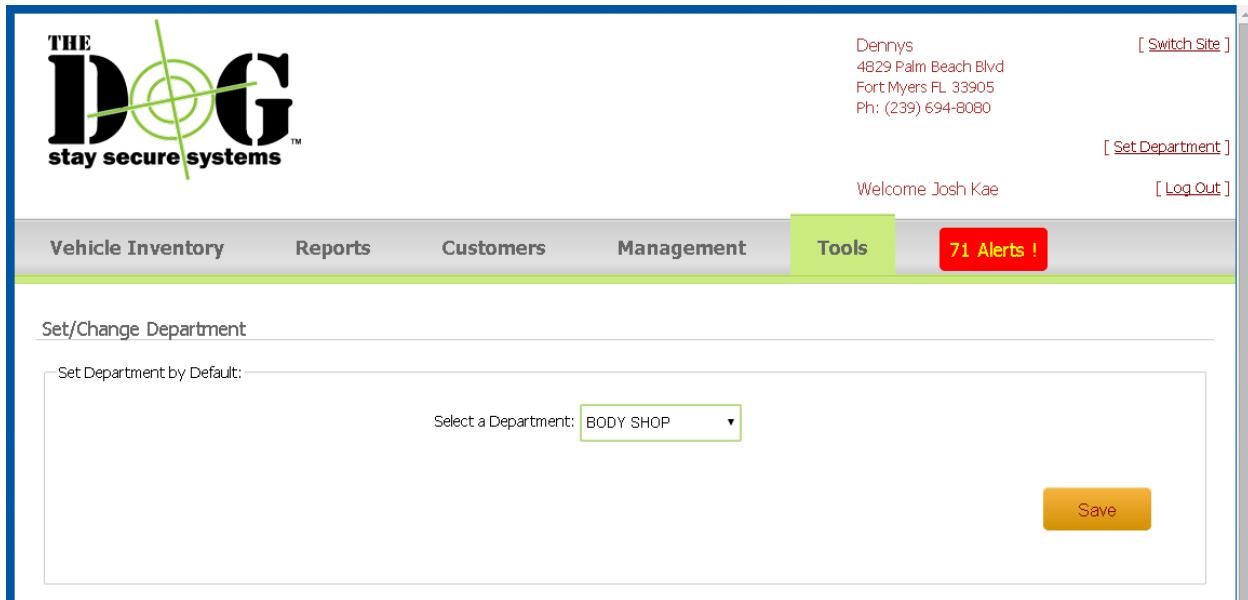


The screenshot shows the Vehicle Inventory page of the DOG system. At the top right, there's a site information block for 'Dennys' located at 4829 Palm Beach Blvd, Fort Myers FL 33905, with phone number (239) 694-8080. Below it are links for 'Switch Site', 'Change' (highlighted by a red arrow), and 'Logout'. The main navigation bar includes tabs for Vehicle Inventory, Reports, Contacts, Management, Tools, Alerts (12!), and RFID Lookup. Below the navigation is a search bar with fields for 'Key' and 'Stock #', and a pencil icon. To the right is a 'Filter by' section with dropdowns for Site (Dennys), Status (All Status), Out Reason (All Reasons), Year (Select One), Make (Select One), and Model (Select One). A RSS feed icon is also present. The message 'Welcome Josh Kae' is displayed. The table below shows 125 vehicles found, with columns for #, K, A, Stock #, Year, Make, Model, Trim, Color, Mileage, Site, Veh, Key, Tag, Out Reason, TD#, Days, Batt, FuelP%, Last, DTC, and RSSI. The first row of data is shown.

#	K	A	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD#	Days	Batt	FuelP%	Last	DTC	RSSI
1	✓		15571	2012	KIA	SEDONA	VAN LX	WHI	33442	Dennys	192	Out	PC874V	Test Drive	1						

Setting the Department

Click the [Change] link to display the Set/Change Department screen. The [Select a Department] dropdown will allow you to set the department as needed. Click the [Save] button when finished to save your changes.



The screenshot shows the 'Set/Change Department' page. At the top right, there's site information for 'Dennys' (4829 Palm Beach Blvd, Fort Myers FL 33905, Ph: (239) 694-8080), 'Switch Site', 'Set Department' (highlighted by a red arrow), and 'Logout'. The main navigation bar includes tabs for Vehicle Inventory, Reports, Customers, Management, Tools (highlighted), and Tools (red box containing '71 Alerts !'). Below the navigation is a form titled 'Set/Change Department' with a 'Set Department by Default:' label and a 'Select a Department:' dropdown menu currently set to 'BODY SHOP'. A 'Save' button is at the bottom right.

Viewing the Check Out Details

While viewing the Check Out Activity for a vehicle, the department name will be displayed for Internal Transfers. For convenience, the department name is displayed for Internal Transfers while hovering your mouse cursor over the Out Reason field.

The DOG™ – User Manual

The screenshot shows the THE DOG stay secure systems software interface. At the top, there is a logo with the text "THE DOG stay secure systems™". On the right side, there are links for "Dennys", "Switch Site", "Sales Department", "Change", "Welcome Josh Kae", and "Log Out". Below the header, a navigation bar includes "Vehicle Inventory" (highlighted in green), "Reports", "Customers", "Management", "Tools", and a red button "85 Alerts!". A red arrow points down from the "Management" link towards the "Check Out Activity" section.

Under "Vehicle Inventory", it says "1 Vehicle Found". A table displays vehicle details:

K	P	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD#	Days	Balt	Fuel%	Last	DTC	
✓		14312	1999	BMW	328IC	CONV	BLK	86726	Dennys	81	Out		Internal Transfer							...

Below the table, under "Actions", are buttons: "Transfer Vehicle to Dept", "Edit Veh Details", "Mark Inactive", "Change RFID", and "Close".

Under "Check Out Activity", there are tabs: "Check Out Activity" (selected), "Vehicle Details", "Attachments", and "Security".

A red arrow points to the "Reason" column of the "Check Out Activity" table, specifically highlighting the entry "Internal Transfer".

The "Check Out Details" panel on the right shows:

- Department: SERVICE Dept
- Date/Time Out: 8/28/2014 10:43 AM
- Employee Name: Greg Smith

Managing Departments

Navigate to the Management navigation link and select Departments from the dropdown list to view all available departments. From this screen you may add new departments or edit existing ones.

The DOG™ – User Manual

The screenshot shows the software interface for 'THE DOG stay secure systems'. At the top, there's a logo with a stylized 'D' and 'G' and the text 'THE DOG stay secure systems'. To the right of the logo, there's contact information for 'Dennys' located at '4829 Palm Beach Blvd, Fort Myers FL 33905, Ph: (239) 694-8080'. There are also links for '[Switch Site]', '[Set Department]', 'Welcome Josh Kae', and '[Log Out]'. Below the header, a navigation bar has tabs for 'Vehicle Inventory', 'Reports', 'Customers', 'Management' (which is highlighted in green), and 'Tools'. A red button on the right of the bar says '71 Alerts !'. The main content area is titled 'Departments Management'. It features a table with a blue header row labeled 'Name'. The table contains four rows with department names: 'BODY SHOP', 'DETAIL', 'Sales', and 'SERVICE'. On the right side of the table, there's a 'Actions' button with a green 'Add New' button underneath it.

To edit an existing department, click on a department name in the list. The "Sales" department cannot be edited. When a vehicle is transferred to the "Sales" department, it is considered available for sale. This is the default department when no department is specified.

The DOG™ – User Manual

The screenshot shows the software interface for 'THE DOG stay secure systems'. At the top, there's a logo with a stylized 'D' and 'G' and the text 'stay secure systems'. To the right of the logo are user details: 'Dennys', '4829 Palm Beach Blvd', 'Fort Myers FL 33905', and 'Ph: (239) 694-8080'. There are also links for '[Switch Site]', '[Set Department]', 'Welcome Josh Kae', and '[Log Out]'. Below the header is a navigation bar with tabs: 'Vehicle Inventory', 'Reports', 'Customers', 'Management' (which is highlighted in green), and 'Tools'. A red button on the right of the navigation bar says '71 Alerts !'. The main content area is titled 'Departments Management'. It shows a 'Department' section with 'BODY SHOP' selected. To the right of this is an 'Actions' section with buttons for 'Edit', 'Mark Inactive', and 'Close Details'. Below these sections is a 'Department Details' panel, which contains a 'Department Name:' field with 'BODY SHOP' entered.

Department Details

To add a new department, click the [Add New] button on the Departments Management list view screen. Make sure the new department name is unique. Click [Save] when finished.

The DOG™ – User Manual

The screenshot shows the DOG software interface. At the top, there's a logo for "THE DOG stay secure systems". To the right, site information is listed: Dennys, 4829 Palm Beach Blvd, Fort Myers FL 33905, Ph: (239) 694-8080. There are links for "Switch Site", "Set Department", "Welcome Josh Kae", and "[Log Out]". Below the header, a navigation bar has tabs for "Vehicle Inventory", "Reports", "Customers", "Management" (which is highlighted in green), and "Tools". A red box labeled "71 Alerts!" is visible. The main content area is titled "Departments Management" and contains a form for "Adding New Department". It asks for a "Department Name:" and includes a note: "* Do not include 'Department' word in any way." Below the form are "Save" and "Cancel" buttons. A footer note says "* Fill out all required fields".

Switching Locations

The default site is visible in the top right corner of the application. The site is used to specify the default filter used on the Vehicle Inventory list view.

Filtering Vehicles by Site

Use the "Filter by" [Site] dropdown to filter the vehicle list accordingly.

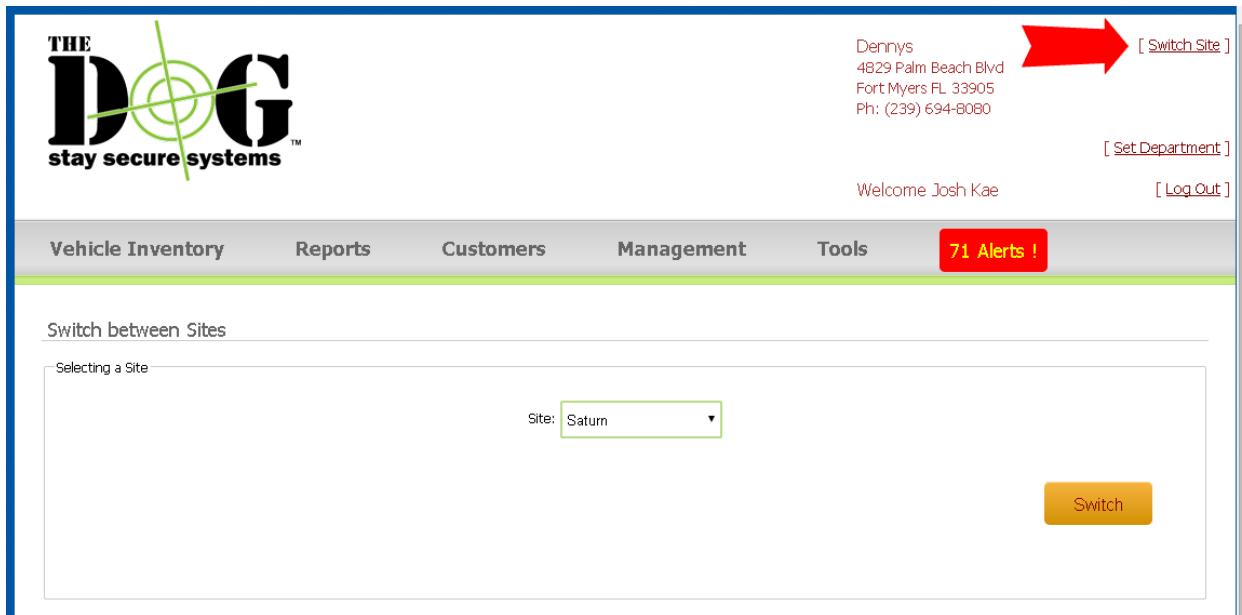
The screenshot shows the DOG software interface with the "Vehicle Inventory" tab selected. At the top, there's a logo for "THE DOG stay secure systems". To the right, site information is listed: Dennys, 4829 Palm Beach Blvd, Fort Myers FL 33905, Ph: (239) 694-8080. There are links for "Switch Site", "Sales Department", "Welcome Josh Kae", and "[Log Out]". Below the header, a navigation bar has tabs for "Vehicle Inventory", "Reports", "Contacts", "Management", "Tools", "Alerts (12)!", and "RFID Lookup". A red arrow points to the "Stock #" input field in a search/filter panel. The panel also includes "Search by" fields for "Key:" and "Stock #:", and "Filter by" dropdowns for "Site: Dennys", "Status: [All Status]", "Out Reason: [All Reasons]", "Year: [Select One]", "Make: [Select One]", and "Model: [Select One]". Below the panel, a message says "125 Vehicles Found" and a table lists vehicle details. The table columns are: #, K, A, Stock #, Year, Make, Model, Trim, Color, Mileage, Site, Veh, Key, Tag, Out Reason, TD#, Days, Batt, Fuel%, Last, DTC, RSSI. The first two rows of data are shown.

#	K	A	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD#	Days	Batt	Fuel%	Last	DTC	RSSI
1	✓		15571	2012	KIA	SEDONA	VAN LX	WHI	33442	Dennys	192	Out	PC874V	Test Drive	1						
2	✓		14784	2002	CHRYSLER	SEBRING	2DR C	WHI	79430	Dennys	102	Out		Vendor	1	158	12.19		3784		

The DOG™ – User Manual

Changing the Default Site

Click the [Switch Site] link to change the default site. You will then have the option to change the site using the displayed dropdown. Click [Switch] to save your selection.



Vehicle Inventory

The Vehicle Inventory screen is the default screen displayed upon logging into the application.

General Layout

The screen displays general vehicle details, RFID status, check out details, battery information, OBD-related data, and other information useful for effectively managing your vehicle fleet.

Searching and Filtering

Use the "Search by", "Filter by", and [Clear List] options to filter the Vehicle Inventory list. Vehicles can be searched by specific stock number or using an assigned RFID attached to the vehicle keys. "Search by" RFID is the default and will be highlighted yellow when the Vehicle Inventory list is initially displayed. When using the "Search by" option, only a single vehicle record should be displayed.

List results can be filtered by Site, Status (In, Out, Running), and Out Reason.

The "Search by" and "Filter by" options can be reset to their default values by clicking on the [Clear List] button.

The DOG™ – User Manual

Vehicle Inventory Reports Contacts Management Tools Alerts (12) RFID Lookup:

Search by: Key: [] Stock #: []

Filter by: Site: Dennys Status: [All Status] Out Reason: [All Reasons]

Year: [Select One] Make: [Select One] Model: [Select One]

125 Vehicles Found

#	K	A	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD#	Days	Batt	Fuel%	Last	DTC	RSSI
1	✓		15571	2012	KIA	SEDONA	VAN LX	WHI	33442	Dennys	192	Out	PC874V	Test Drive	1						
2	✓		14784	2002	CHRYSLER	SEBRING	2DR C	WHI	79430	Dennys	102	Out		Vendor	1	158	12.19		3784		

Selecting a Vehicle

Click on a vehicle stock number to check the vehicle out if the status is currently "In." If the vehicle is currently "Out", you will be presented with the option to check the vehicle in.

130 Vehicles Found

K	P	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD#	Days	Batt	Fuel%	Last	DTC	
✓	✓	14478		Cadillac	DeVille	4dr Sed	Sil	83035	Dennys		In									...
✓		14877	2001	Cadillac	DeVille	4dr Sed	Sil	83035	Dennys		In				38	3.99		394	0	...
✓	✓	14784	2002	CHRYSLER	SEBRING	2dr Con	WHI	79429	Dennys		In				13	3.69		151	0	...

Checking a Vehicle Out

To check a vehicle out, select the "Reason" from the dropdown list. Depending on the "Reason" selected, the displayed options will change.

If performing a "Test Drive", put the cursor in the Driver License field and then slide the customer's driver license through the magnetic strip/RFID reader. The customer's information should be displayed in the appropriate fields. Fill in the rest of the customer information as needed. You will be required to scan the vehicle keys in the Vehicle Key field if the vehicle was selected by clicking directly on the stock number. The vehicle mileage should be entered in the "Actual Mileage" field and the dealer tag should be scanned using the RFID reader after this field has been selected. Click the [Check Out] button to complete the check out process. If any required information is missing, those fields will be marked with a red asterisk indicating missing or invalid information.

The DOG™ – User Manual

The screenshot shows the DOG™ software interface. At the top, there is a navigation bar with tabs: Vehicle Inventory, Reports, Customers, Management, Tools, and a red button labeled "85 Alerts!". Below the navigation bar, a message "1 Vehicle Found" is displayed. A table lists a single vehicle with the following details:

K	P	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD#	Days	Batt	Fuel%	Last	DTC	
✓	✓	14478	2002	Chrysler	PT Crui	4dr Fro	GRY	92150	Dennys		In				18	13.75		435	0	...

Below the table, a "Actions" section contains several buttons: Transfer Vehicle to Dept, Mark Inactive, Change RFID, Remove RFID, Transfer RFID, Show Vehicle Details, and Close.

A modal dialog box titled "Checking Vehicle Out" is open. It contains fields for "Reason:" (set to "Test Drive"), "Vehicle Key:", and "Actual Mileage:". There are also fields for "Driver License:" (with a "Clear" link), "Contact Name:", "Address:", "Phone Number:", and "Email Address:". On the right side of the dialog, there are dropdown menus for "Miles Permitted:" (set to 50) and "Hours Permitted:" (set to 24, with a calendar icon). At the bottom of the dialog are buttons for "OFAC Website", "Check Out" (highlighted in orange), and "Cancel".

At the very bottom of the screen, a copyright notice reads "The DOG™ - Stay Secure System. Copyright Version 1.2.10.10".

Checking a Vehicle In

Check a vehicle back in by selecting the vehicle through stock number or scanning the keys using the RFID reader. After the vehicle has been selected, scan the keys if necessary in the "Vehicle Key" field, enter the mileage, scan the dealer tag, select the Result, and optionally enter notes. Click [Check In] to complete the process.

The DOG™ – User Manual

The screenshot shows the DOG™ software interface. At the top, there is a navigation bar with tabs: Vehicle Inventory, Reports, Customers, Management, Tools, and a red button labeled "85 Alerts!". Below the navigation bar, a message "1 Vehicle Found" is displayed. A table lists one vehicle: Stock # 15442A, Year 2010, Make NISSAN, Model ALTIMA, Trim 4DR SED, Color SIL, Mileage 85186, Site Dennys, Veh 59, Key Out, Tag PE610E, Out Reason Test Drive, TD# 1, Days, Batt, Fuel%, Last, DTC, and a "..." button.

On the right, there is an "Actions" panel with buttons: Change RFID, Show Vehicle Details, and Close.

The main area is titled "Checking Vehicle In". It contains fields for Reason (Test Drive), Vehicle Key, Driver License, Contact Name, Address (FT MYERS FL33908), Phone Number, Email Address, Mileage In, Tag Used, Result (dropdown menu), Notes, and two buttons: Check In (orange) and Cancel (grey).

At the bottom of the interface, it says "The DOG™ - Stay Secure System. Copyright Version 1.2.10.10".

Transferring to Department

Vehicles are checked out to a specific department by using the “Internal Transfer” option. This option should only be used when the department is physically located at the same site as the sales department. If the department is at a different physical location, that location can be setup as a Vendor or Site, depending on whether a separate DOGMaster server will be deployed at that location.

The DOG™ – User Manual

1 Vehicle Found

K	P	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD#	Days	Batt	Fuel%	Last	DTC	
✓	✓	14478	2002	Chrysler	PT Crui	4dr Fro	GRY	92150	Dennys		In				18	13.75		435	0	...

Actions

[Transfer Vehicle to Dept](#) [Mark Inactive](#) [Change RFID](#) [Remove RFID](#) [Transfer RFID](#) [Show Vehicle Details](#) [Close](#)

Checking Vehicle Out

Reason: Internal Transfer ▾

Vehicle Key:

Out to Department: SERVICE ▾

[Check Out](#) [Cancel](#)

Mark Inactive

Vehicles that should be removed from the system are marked inactive. An inactive vehicle is removed from the list, but not deleted from the system. To mark a vehicle inactive, select the vehicle and then use the [Mark Inactive] button.

Vehicle Inventory Reports Customers Management Tools 85 Alerts !

1 Vehicle Found

K	P	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD#	Days	Batt	Fuel%	Last	DTC	
✓	✓	14478	2002	Chrysler	PT Crui	4dr Fro	GRY	92150	Dennys		In				18	13.75		435	0	...

Actions

[Check Vehicle Out](#) [Transfer Vehicle to Dept](#) [Edit Veh Details](#) [Mark Inactive](#) [Change RFID](#) [Remove RFID](#) [Transfer RFID](#) [Close](#)

Check Out Activity Vehicle Details Attachments Security

Reason	Date
Vendor	11/12/2014 9:34 AM
Vendor	9/17/2014 11:00 AM
Vendor	2/6/2014 10:42 AM

Contact Information

Company: DENNYS AUTO SERVICE
2900 MICHIGAN AVE
FT MYERS, FL, 33901
Phone: (863) 265-9548
Contact: RANDY SCOTT

Check Out Details

The DOG™ – User Manual

Change RFID

To change the currently assigned key RFID, attach a new RFID to the vehicle keys and click on the [Change RFID] button on the vehicle selection screen. The following screen will be displayed, giving you the option to assign the new RFID. Click [Save] when finished to complete the process.

1 Vehicle Found

K	P	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD #	Days	Batt	Fuel%	Last	DTC	...
✓	✓	14478	2002	Chrysler	PT Crui	4dr Fro	GRY	92150	Dennys		In				18	13.75		435	0	...

Actions

Check Vehicle Out Transfer Vehicle to Dept Mark Inactive Show Vehicle Details Close

Assigning Key RFID

Scan new Key RFID:

Save Cancel

Remove RFID

To remove the currently assigned key RFID, click the [Remove RFID] button on the vehicle selection screen. The following screen will be displayed, giving you the option to remove the RFID. Note: The vehicle may not be checked out until a valid RFID has been assigned to the keys. It is recommended that the RFID be left on the keys when a vehicle has been sold in order to facilitate quicker vehicle and customer lookup searches whenever the customer returns to your location.

1 Vehicle Found

K	P	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD #	Days	Batt	Fuel%	Last	DTC	...
✓	✓	14478	2002	Chrysler	PT Crui	4dr Fro	GRY	92150	Dennys		In				18	13.75		435	0	...

Actions

Check Vehicle Out Transfer Vehicle to Dept Mark Inactive Show Vehicle Details Close

Remove Key RFID

Key RFID is ready to be removed. Click [Remove] button to proceed.

Remove Cancel

Transfer RFID

The DOG™ – User Manual

The “Transfer RFID” option is provided as a quick means of removing the key RFID from one vehicle and assigning it to another. Note: It is recommended that each vehicle permanently retain an RFID on the keys. Follow the onscreen instructions to complete the process.

1 Vehicle Found

K	P	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD #	Days	Batt	Fuel%	Last	DTC	
✓	✓	15455	2013	Dodge	Avenger	4dr Fro	Sil	37292	Dennys		In			2	7	12.53		3	0	...

Actions

[Check Vehicle Out](#) [Transfer Vehicle to Dept](#) [Mark Inactive](#) [Show Vehicle Details](#) [Close](#)

Transferring Key RFID

Scan Key RFID to be Transfer: Enter the New Stock #:

[Transfer](#) [Cancel](#)

Show Vehicle Details

Vehicle details are viewable by selecting a vehicle and then clicking on the “Vehicle Details” tab. General information about the vehicle is displayed on this screen.

1 Vehicle Found

K	P	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD #	Days	Batt	Fuel%	Last	DTC	
✓	✓	15440	2009	MERCURY	MARINER	4DR PRE	SIL	65050	Dennys	14	Out	PCO63G	Test Drive	2	0	12.88	43.53	1	0	!

Actions

[Check Vehicle In](#) [Edit Veh Details](#) [Change RFID](#) [Close](#)

Check Out Activity [Vehicle Details](#) [Attachments](#) [Security](#)

Stock #:	VIN:	RFID:
<input type="text" value="15440"/>	<input type="text" value="4M2CU87739KJ13410"/>	<input type="text" value="Assigned"/>
Year:	Make:	Model:
<input type="text" value="2009"/>	<input type="text" value="MERCURY"/>	<input type="text" value="MARINER"/>
Type:	Color:	Mileage:
<input type="text" value="4DR PREMIER"/>	<input type="text" value="SIL"/>	<input type="text" value="65050"/>
Date Added:	Date Sold:	Date Inactive:
<input type="text" value="8/21/2014 10:32 AM"/>		

To edit the vehicle details, click the [Edit Veh Details] button. Note: If using the DMSInterface vehicle inventory synchronization service, the vehicle details should not be updated manually. Changes will transfer automatically from the DMS.

The DOG™ – User Manual

The screenshot shows a software application window titled "The DOG™ – User Manual". At the top, a message says "1 Vehicle Found". Below it is a table with columns: K, P, Stock #, Year, Make, Model, Trim, Color, Mileage, Site, Veh, Key, Tag, Out Reason, TD#, Days, Batt, Fuel%, Last, DTC. A single row is selected, showing values: ✓, ✓, 15440, 2009, MERCURY, MARINER, 4DR PRE, SIL, 65050, Dennys, 14, Out, PCO63G, Test Drive, 2, 0, 12.88, 43.53, 1, 0, !. To the right of the table is a "Actions" box with three buttons: Check Vehicle In, Show Vehicle Details, and Close.

Updating Vehicle Details

Stock #: 15488 VIN: 1FAFP53264A177108 Mileage: 152511

Year: 2004 Make: Ford Model: Taurus Type: 4dr Sedan SE Color: GRY

Save Cancel

Check Out Activity

All check out history for a single vehicle is viewable on the Check Out Activity tab. Click in the table displayed on the left displaying Reason and Date to view a single check out record.

The DOG™ – User Manual

K	P	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD#	Days	Batt	Fuel%	Last	DTC	
✓	✓	15440	2009	MERCURY	MARINER	4DR PRE	SIL	65050	Dennys	11	Out	PCO63G	Test Drive	2	0	14.28	60.78	5	0	!

Check Out Activity Vehicle Details Attachments Security

Days vehicle out
Key status
Tag checked out
Reason vehicle is out
Test drive counts

Check out history
Contact Information

Check out information
Check Out Details

Printable Test Drive Agreement
[View Test Drive Agreement Form](#)

Comments
Add Comment

Attachments

From the vehicle selection screen, click on the "Attachments" tab to view all files attached to the vehicle record. PDF attachments including Test Drive Agreements are easily accessible from this tab.

The DOG™ – User Manual

1 Vehicle Found

K	P	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD#	Days	Batt	Fuel%	Last	DTC	
✓	✓	15440	2009	MERCURY	MARINER	4DR PRE	SIL	65050	Dennys	12	Out	PCO63G	Test Drive	2	1	14.28	60.78	32	0	!

Actions

[Check Vehicle In](#) [Edit Veh Details](#) [Change RFID](#) [Close](#)

[Check Out Activity](#) [Vehicle Details](#) [Attachments](#) [Security](#)

Files

File Name	
Test Drive Agreement for Alisha Jones on 11/3/2014 2:50:58 PM	
Test Drive Agreement for Alisha Jones on 9/4/2014 3:50:30 PM	

Comments

[Add Comment](#)

Alert Activity

From the vehicle selection screen, click on the “Security” tab and “Alert Activity” child tab to view all security alerts for the vehicle. Events are listed in date descending order.

1 Vehicle Found

#	K	A	Stock #	Year	Make	Model	Trim	Co	Page	Site	Veh	Key	Tag	Out Reason	TD#	Days	Batt	Last	DTC	RSSI
1	✓	✓	15767	2010	FORD	F-150	4X4 S	W	8977	Dennys	1	Out		Vendor	1	1	13.89	1	1	175

[Check Out Activity](#) [Vehicle Details](#) [Attachments](#) [Security](#)

[Alert Activity](#) [APS Activity](#) [Information Available](#)

#	A	Date Added	APS	Type	Code	Description	Date Cleared	
1	!	8/12/2015 12:15 PM	20716230	APS	203	DEVICE LINKED VIN detected. S/N 20716230 automatically paired.		
2	!	8/12/2015 8:51 AM	20716230	VEHICLE	500	UNAUTHORIZED VEHICLE ACCESS - Vehicle 15767 2010 Ford F-150. Status Eng. Running. Site Dennys, S/N 20716230.		
3	!	8/11/2015 9:00 AM	20716230	PUP	203	DEVICE LINKED VIN detected. S/N 20716230 automatically paired.	8/11/2015 2:31 PM	✓
4	!	8/5/2015 6:31 PM	20716230	VEHICLE	500	UNAUTHORIZED VEHICLE ACCESS - Vehicle 15767 2010 Ford F-150. Status Eng. Running. Site Dennys, S/N 20716230.	8/8/2015 6:55 AM	✓
5	!	8/5/2015 9:07 AM	20716230	APS	203	DEVICE LINKED VIN detected. S/N 20716230 automatically paired.	8/5/2015 9:53 AM	✓
6	!	7/30/2015 1:09 PM		RFID	200	RFID 842755997810 assigned.	8/5/2015 9:53 AM	✓

Alerts per page: 100 ▾ << < Select a page: 1 ▾ > >> Page 1 of 1

The DOG™ – User Manual

APS Activity

From the vehicle selection screen, click on the "Security" tab and click on the "APS Activity" child tab to view a filtered list of all device events. Date, "APS" serial number, battery voltage, predicted vehicle state (flags), and the number of times device has started up (boot count) are displayed in a sortable table.

Flags indicate vehicle state based on a variety of factors, including battery voltage, OBD information, and other factors.

The screenshot shows the APS Activity screen. At the top, there are several green and orange buttons: Check Vehicle Out, Transfer Vehicle to Dept, Change RFID, Remove RFID, Transfer RFID, Edit Vehicle Details, Edit Vehicle Location, Show Vehicle Details, and Go Back to List. Below this is a table titled "1 Vehicle Found" with columns for #, K, A, Stock #, Year, Make, Model, Trim, Color, Site, Veh, Key, Tag, Out Reason, TD#, Days, Batt, Fuel%, Last, DTC, and RSSI. One row is shown for a Chrysler 300. Below the table is a navigation bar with tabs: Check Out Activity, Vehicle Details, Alert Activity, APS Activity (which is selected and highlighted in blue), and Information Available. The main content area displays a table of "Alert Activity" events with columns for #, Date & Time, APS, Battery, Flags, and Boot. Red arrows point from the "Serial number of device inside vehicle" and "Battery voltage" labels to their respective columns in the table. A large red arrow points to the "# of times device has been plugged in" column, which is the "Boot" column.

#	K	A	Stock #	Year	Make	Model	Trim	Color	Site	Veh	Key	Tag	Out Reason	TD#	Days	Batt	Fuel%	Last	DTC	RSSI
1	✓	✓	15751	2008	CHRYSLER	300	ED L	RED	45	Dennys	In				3	12.64	85.88	2	1	134

#	Date & Time	APS	Battery	Flags	Boot
1	8/12/2015 11:26 AM	20724603	12.64	Onsite	2
2	8/12/2015 12:29 AM	20724603	12.65	Onsite	2
3	8/11/2015 10:23 AM	20724603	12.55	Onsite	2
4	8/11/2015 2:27 AM	20724603	12.67	Onsite	2
5	8/10/2015 10:13 AM	20724603	13.08	Battery high	2
6	8/10/2015 10:12 AM	20724603	14.22	Battery high, OBD, Stopped, RPM, Running	2
7	8/10/2015 10:12 AM	20724603	14.22	Battery high, OBD, Moving, RPM, Running	2
8	8/10/2015 10:12 AM	20724603	14.23	Battery high, OBD, Stopped, RPM, Running	2
9	8/10/2015 10:11 AM	20724603	14.26	Battery high, OBD, Moving, RPM, Running	2
10	8/10/2015 10:11 AM	20724603	14.27	Battery high, OBD, Stopped, RPM, Running	2
11	8/10/2015 10:11 AM	20724603	14.23	Battery high, OBD, Moving, RPM, Running	2
12	8/10/2015 10:11 AM	20724603	14.35	Battery high, OBD, Stopped, RPM, Running	2
13	8/10/2015 5:33 AM	20724603	12.69	Onsite	2
14	8/9/2015 5:28 PM	20724603	12.72	Onsite	2
15	8/9/2015 5:31 AM	20724603	12.70	Onsite	2
16	8/8/2015 4:08 PM	20724603	13.03	Battery high	2

Information Available

The "Information Available" tab displays supported OBD information provided by the vehicle. All possible OBD information supported by the vehicle is not displayed on this screen.

The DOG™ – User Manual

The screenshot shows the 'Vehicle Details' page. At the top, there's a grid of buttons for actions like 'Check Vehicle Out', 'Change RFID', 'Edit Vehicle Details', etc. Below this, a table lists vehicle details. A large red arrow points down from the text 'OBD information is avail on this vehicle' to a section at the bottom right containing 'Fuel % (if avail)' and 'DTC count (if avail)'. The table data includes:

#	K	A	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out	TD#	Days	Batt	Fuel%	Last	DTC	RSSI
1	✓	✓	15751	2008	CHRYSLER	300	AWD L	RED	112145	Dennys		In				3	12.64	85.88	2	1	134

Below the table are tabs for 'Check Out Activity', 'Vehicle Details', 'Attachments', and 'Security'. Under 'Vehicle Details', there are tabs for 'Alert Activity', 'APS Activity', and 'Information Available'. The 'Information Available' tab is active, showing a table with three rows:

Description	Available	Value
MIL Status and DTC Count	YES	1
Fuel Level	YES	85.88%
Distance Traveled	YES	N/A

Reports

The Reports tab displays check out and check in activity. The available filters are displayed at the top of the page. Paging options are available at the bottom of the page.

The screenshot shows the 'Reports' tab selected. At the top, there's a navigation bar with tabs for 'Vehicle Inventory', 'Reports' (selected), 'Customers', 'Management', and 'Tools'. A red box highlights '86 Alerts !' on the 'Tools' tab. Below the navigation is a search bar with fields for 'Stock #', 'Key RFid:', 'Date Range', 'Employee', 'Site', and a 'Clear' button. The main area is titled 'Check Out/In Activity' and contains a table of activity logs:

Stock #	Out Date	Due Date	Out Reason	Contact/Vendor	In Date	Result	Out Employee	In Employee
14051	11/17/2014 1:45 PM		Internal Transfer	Sales Dept	11/17/2014 1:45 PM		DAYTON DIAZ	DAYTON DIAZ
15375A	11/17/2014 9:20 AM		Internal Transfer	SERVICE Dept			RANDALL FERRIS	
15498	11/16/2014 2:43 PM	11/17/2014 2:43 PM	Test Drive	carlos merida			Noe Pena	
15521	11/15/2014 6:33 PM		Sold	ROLANDO ARREDONDO			DAYTON DIAZ	
15521	11/15/2014 6:24 PM	11/16/2014 6:24 PM	Test Drive	ROLANDO ARREDONDO	11/15/2014 6:33 PM	Sold	GARRY RIGGS	DAYTON DIAZ
15515	11/15/2014 3:55 PM		Sold	george sandora			DAYTON DIAZ	
15515	11/15/2014 3:51 PM	11/16/2014 3:51 PM	Test Drive	george sandora	11/15/2014 3:55 PM	Sold	GARRY RIGGS	DAYTON DIAZ
15514	11/15/2014 12:40 PM	11/16/2014 12:40 PM	Test Drive	john taylor	11/15/2014 2:12 PM	Active	GUSTAVO MUÑOZ	DAYTON DIAZ
15059	11/14/2014 5:40 PM		Sold	MARY HUEY			DAYTON DIAZ	
15528	11/14/2014 4:00 PM	11/15/2014 4:00 PM	Vendor	Ds Auto Connection			Greg Smith	

Customers

The Customers page allows you to view and edit existing customer records in the system.

The DOG™ – User Manual

General Layout

The Customers list page displays all available customers in the system. Various searching, filtering, paging, and sorting options are available.

The screenshot shows the DOG™ software interface with a blue header bar containing navigation links: Vehicle Inventory, Reports, Customers (highlighted in green), Management, and Tools. A red button in the top right corner displays '86 Alerts !'. Below the header is a search bar with fields for Customer DL (Swipe Driver License), Customer Phone #, and Customer RFID (scan RFID). To the right of the search bar are 'Clear List' and 'Add New' buttons. The main area is a table listing customer information. The columns are: Name, Address, Home Phone No., Mobile Phone No., and EmailAddress. The table contains 20 rows of data, with the 19th row highlighted in green. At the bottom of the table are pagination controls: 'Customers per page: 25 ▾', '<< < Select a page: 1 ▾ > >>', and 'Page 1 of 20'.

Name	Address	Home Phone No.	Mobile Phone No.	EmailAddress
carlos [REDACTED]	27658 p [REDACTED]	(239) [REDACTED]		
ROLAN [REDACTED]	1215 25 [REDACTED]	(941) [REDACTED]		
MARY [REDACTED]	362 MUS [REDACTED]	(239) [REDACTED]		
cody v [REDACTED]	306 chas [REDACTED]	(239) [REDACTED]		
LUIS A [REDACTED]	4010 s e [REDACTED]	(863) [REDACTED]		
SHEVA [REDACTED]	2806 22 [REDACTED]	(239) [REDACTED]		
MARGA [REDACTED]	2603 NI [REDACTED]	(239) [REDACTED]		
TYLER [REDACTED]	3141 CO [REDACTED] 05	(239) [REDACTED]		
MATTH [REDACTED]	180 OAK [REDACTED]	(239) [REDACTED]		
NATHA [REDACTED]	13013 FA [REDACTED]	(941) [REDACTED]		
GLORI [REDACTED]	3156 VA [REDACTED]	(239) [REDACTED]		
elizabet [REDACTED]	2850 he [REDACTED]	(512) [REDACTED]		
LUIS Z [REDACTED]	3449 W [REDACTED]	(239) [REDACTED]		
MARIA [REDACTED]	8087 DR [REDACTED]	(239) [REDACTED]		
RAUL A [REDACTED]	4541 CO [REDACTED]	(239) [REDACTED]		
ANA Q [REDACTED]	1203 CA [REDACTED]	(239) [REDACTED]		
GUSTA [REDACTED]	3449 W [REDACTED]	(239) [REDACTED]		
OFELIA [REDACTED]	2253 ea [REDACTED]	(239) [REDACTED]		
JA'MAR [REDACTED]	4700 LE [REDACTED]	(239) [REDACTED]		
OLGU [REDACTED]	1032 SE [REDACTED]	(561) [REDACTED]		
NATHA [REDACTED]	8110 HO [REDACTED]	(239) [REDACTED]		

Searching and Filtering

Customers may be searched by driver license (DL), phone number, or by assigned RFID.

Customer Details

Click on a customer name or scan the customer's RFID to view the customer details. From the customer details page, the record can be edited, RFID assigned and removed, and record made inactive.

The DOG™ – User Manual

The screenshot shows the 'Customers' tab selected in the top navigation bar. On the left, there's a search bar with 'Customer' placeholder text and a dropdown menu showing 'carlos'. To the right of the search bar are five action buttons: 'Edit', 'Assign RFID', 'Remove RFID', 'Mark Inactive', and 'Close Details'. Below the search bar, there are two tabs: 'Customer Details' (which is active) and 'Preferences'. Under 'Customer Details', there are fields for 'Drive License' (containing a redacted value), 'Customer Name' (containing 'carlos'), and 'RFID' (containing 'Not Assigned'). There's also a field for 'Address' containing '27658' followed by a redacted address. At the bottom of the main content area, there's a note: 'The DOG™ - Stay Secure System. Copyright Version 1.2.10.10'.

APS

APS "devices" are displayed in the Management > APS screen.

General Layout

All "APS" devices assigned to your account are displayed on the APS Management list. APS linked to running vehicles will be highlighted in orange.

The DOG™ – User Manual

APS Management

Search by

APS Serial No: [] APS RFID: [] Stock No: []

Filter by

Status: In Use ▾

Actions

Clear List

#	APS Serial No.	Setup Date	Stock No	Vehicle Details	VIN	IP Address	Boot Cnt	Last Update
1	20723936	8/12/2015 12:44 PM	15741	2013 KIA OPTIMA 4DR LX BLK	5XGM4A72DG235154	::ffff:75.145.2.26	2	8/12/2015 12:51 PM
2	20716230	8/12/2015 12:15 PM	15767	2010 Ford F-150 4x4 Super Cab Styleside	1FTEX1E82AFA36602	::ffff:75.145.2.26	6	8/12/2015 12:31 PM
3	20724697	8/12/2015 12:04 PM	15180	2011 TOYOTA COROLLA 4DR LE TAN	2T1BU4EE9BC569012	::ffff:73.28.8.124	2	8/12/2015 12:05 PM

Searching and Filtering

APS may be searched by serial number, assigned RFID, or linked stock number. To search by serial number or stock number, type in the information in the fields provided. To search by RFID, the APS must be scanned using the RFID reader after the cursor has been placed in the APS RFID field.

APS Management

Search by

APS Serial No: [] APS RFID: [] Stock No: []

Filter by

Status: In Use ▾

Actions

Clear List

#	APS Serial No.	Setup Date	Stock No	Vehicle Details	VIN	IP Address	Boot Cnt	Last Update
1	20723936	8/12/2015 12:44 PM	15741	2013 KIA OPTIMA 4DR LX BLK	5XGM4A72DG235154	::ffff:75.145.2.26	2	8/12/2015 12:51 PM
2	20716230	8/12/2015 12:15 PM	15767	2010 Ford F-150 4x4 Super Cab Styleside	1FTEX1E82AFA36602	::ffff:75.145.2.26	6	8/12/2015 12:31 PM
3	20724697	8/12/2015 12:04 PM	15180	2011 TOYOTA COROLLA 4DR LE TAN	2T1BU4EE9BC569012	::ffff:73.28.8.124	2	8/12/2015 12:05 PM

Linking to a Vehicle

Select an APS that is not currently assigned to a vehicle by setting the Status filter to "Available". Plug the APS device into the vehicle's OBD port and start the vehicle. If the vehicle was manufactured prior to 2008 and the APS is not automatically linked to the vehicle, follow the steps listed below:

1. Click the [Link to Vehicle] button.

The DOG™ – User Manual

This screenshot shows the 'APS Management' section of the software. At the top, there's a header bar with tabs: Vehicle Inventory, Reports, Contacts, Management, Tools, Alerts (16!), and RFID Lookup. Below the header, the main area is titled 'APS Management'. On the left, there's a box labeled 'APS' containing the serial number '20716274'. To the right of this box is a red arrow pointing to a group of four green buttons labeled 'Actions': 'Link to Vehicle', 'Assign RFID', 'Mark Inactive', and 'Close Details'. Below the 'APS' box, there are two tabs: 'APS Details' (which is selected) and 'APS Activity'. Under 'APS Details', there are four fields: 'APS Serial No.' (20716274), 'Date Added' (8/20/2014 1:34 PM), 'Date Updated' (8/1/2015 1:40 PM), and 'Date Inactive' (empty). Further down, there are four more fields: 'Setup Date' (empty), 'IP Address' (:ffff:75.145.2.26), 'Boot Cnt' (2), and 'RFID' (Assigned). At the bottom of the main area, it says 'Vehicle Information' followed by the message 'There is no Vehicle linked to this APS.'

2. Change the "Locate Vehicle By" dropdown list if necessary and then enter the required information. After entering the vehicle identifying information, the vehicle details should be displayed.

This screenshot shows the 'APS Management' section again. The 'APS' box contains '20716274'. Below it, there's a section titled 'Manually pair an APS to a Vehicle' with a sub-section 'Locate Vehicle By: Stock #' followed by a dropdown menu set to 'Stock #'. To the right of this input field is a red arrow pointing to the 'Link' button. At the bottom right of the screen are two buttons: 'Link' (highlighted in yellow) and 'Cancel'.

3. If the vehicle details are correct, check the box if you agree with the WARNING items and then click the [Link] button to complete the process.

The DOG™ – User Manual

The screenshot shows the DOG software interface with a navigation bar at the top containing links for Vehicle Inventory, Reports, Contacts, Management, Tools, Alerts (16!), and RFID Lookup. The main content area is titled "APS Management". It displays an "APS" entry with the number "20716274". Below this, a section titled "Manually pair an APS to a Vehicle" shows a vehicle detail: "Stock # 15571 - 2012 KIA SEDONA VAN LX WHI". A red box highlights a "WARNING" section containing two statements: "I understand that after an APS is manually linked with a vehicle, it should not be unplugged or removed." and "I understand that the vehicle's battery must be kept in working condition and cannot be removed or disconnected.". A red arrow points to the "Link" button at the bottom right of the warning box. Other buttons visible include "Check here to certify the information entered is correct.", "Link", and "Cancel".

4. An Alert Activity event will be created when the vehicle is successfully linked.

After an APS has been manually linked to a vehicle, it must remain plugged in at all times and the vehicle's battery must be maintained in order to ensure normal APS operations. If the APS becomes unplugged or the battery becomes disconnected or becomes low, then the manual linking procedure must be repeated.

Unlinking from a Vehicle

To unlink an APS from a vehicle, click the [Unlink from Vehicle] button. Once a vehicle has become unlinked, new APS Activity events will no longer be displayed in the Vehicle Details > Security > APS Activity page. Note: If the APS remains in the vehicle after manual unlinking and the vehicle is started, the APS will automatically re-link to the vehicle if the VIN is reported by the vehicle.

The DOG™ – User Manual

The screenshot shows the DOG software interface with a navigation bar at the top containing links for Vehicle Inventory, Reports, Contacts, Management, Tools, Alerts (16!), and RFID Lookup. The main content area is titled "APS Management". It displays a list of APS devices, with one device selected and highlighted. To the right of the device list is a "Actions" button group containing four green buttons: "Unlink from Vehicle", "Assign RFID", "Mark Inactive", and "Close Details". A large red arrow points from the device list towards the "Actions" button group. Below the device list, there are two tabs: "APS Details" (which is active) and "APS Activity". The "APS Details" tab displays various device details in a grid format:

APS Serial No:	Date Added:	Date Updated:	Date Inactive:
20723936	8/10/2014 3:23 PM	8/12/2015 1:13 PM	
Setup Date:	IP Address:	Boot Cnt:	RFID:
8/12/2015 12:44 PM	::ffff:75.145.2.26	2	Assigned

Assign RFID

Each APS device has an internal RFID. Click the [Assign RFID] button and then scan the APS using the RFID reader to assign the RFID to the APS.

Mark Inactive

Use the [Mark Inactive] button to remove a device from the APS Management list. Marking a device inactive does not delete the record.

APS Details

The APS Detail page displays information about the device and the currently linked vehicle (if applicable).

APS Activity

The APS Activity tab displays all related events for a specific device serial number. In contrast with the APS Activities displayed on the Vehicle Details page, the APS's Activity tab is helpful for diagnosing unexpected behavior with a specific device.

The DOG™ – User Manual

Vehicle Inventory Reports Contacts Management Tools Alerts (16!) RFID Lookup:

APS Management

APS

20723936

Actions

Unlink from Vehicle Assign RFID Mark Inactive Close Details

#	Date Added	VIN	Stock No	Year, Make, Model, Trim	Battery	Flags	Boot
1	8/12/2015 1:13 PM	5XXGM4A72DG235154	15741	2013 KIA OPTIMA 4DR LX BL	12.83	OBD, Stopped	2
2	8/12/2015 1:13 PM	5XXGM4A72DG235154	15741	2013 KIA OPTIMA 4DR LX BL	12.98	Battery high, OBD, Stopped, RPM, Running	2
3	8/12/2015 1:12 PM	5XXGM4A72DG235154	15741	2013 KIA OPTIMA 4DR LX BL	14.11	Battery high, OBD, Moving, RPM, Running	2
4	8/12/2015 12:51 PM	5XXGM4A72DG235154	15741	2013 KIA OPTIMA 4DR LX BL	14.11	Battery high, OBD, Moving, RPM, Running	2
5	8/12/2015 12:44 PM	5XXGM4A72DG235154	15741	2013 KIA OPTIMA 4DR LX BL	14.11	Battery high, OBD, Moving, RPM, Running	2

Dealer Tags

All dealer-assigned tags are viewable in the Management > Dealer Tags list.

General Layout

The Dealer Tag Management screen displays the tag, RFID assignment status, currently assigned employee, and check out status of the tag.

The DOG™ – User Manual

Dealer Tag Management

Search by

Tag: Tag RFID:

Filter by

Status:

Actions

Tag	Tag RFID	Employee	Status	Out Date	Due Date
DENNY	Assigned		Available		
PCO63G	Assigned		In Use - Stock No. 15440 - 2009 MERCURY MARINER - Dennis Hampton	11/3/2014	11/4/2014
DEMO TAG	Assigned		In Use - Stock No. 15267 - 2007 Toyota RAV4 - Dennis Hampton	8/16/2014	8/17/2014
MR. H	Assigned		Available		
MHY39W	Assigned		In Use - Stock No. 15498 - 2008 NISSAN ROGUE - Noe Pena	11/16/2014	11/17/2014
boris	Assigned		Available		
dennys	Assigned		Available		
PC062G	Assigned	Greg Smith	Available		
NC570H	Assigned	Greg Smith	Available		
PC880V	Assigned		Available		
PC874V	Assigned		Available		
PCB78V	Assigned	Dennis Hampton	Available		
NB218H	Assigned	RANDALL FERRIS	Available		
PC064G	Assigned		Available		
PE607E	Assigned		Available		
PE174A	Assigned		In Use - Stock No. 15283B - 2000 CHEVROLET S-10 - Denny Hampton	10/27/2014	10/28/2014
PE611E	Not Assigned		Available		
PE610E	Assigned		In Use - Stock No. 15442A - 2010 NISSAN ALTIMA - Dennis Hampton	9/19/2014	9/20/2014
PE609E	Assigned		Available		
PE608E	Assigned		Available		
NB209H	Assigned		Available		

Tags per page: << < Select a page: > >> Page 1 of 1

Searching and Filtering

Tags can be searched and filtered by the tag, assigned RFID, and by status.

Add New

Click the [Add new] button on the Dealer Tag Management list to add a new dealer tag. The tag name and assigned RFID should be set. An employee may optionally be set to indicate the assignment of a dealer tag to a specific employee.

The DOG™ – User Manual

This screenshot shows the 'Dealer Tag Management' section of the software. At the top, there is a navigation bar with tabs: Vehicle Inventory, Reports, Customers, Management (which is highlighted in green), Tools, and a red box containing '72 Alerts !'. Below the navigation bar, the title 'Dealer Tag Management' is displayed. A sub-section titled 'Adding Dealer Tag' contains three input fields: 'Dealer Tag Name:' with a text input box, 'Scan Tag RFid:' with a text input box, and 'Employee:' with a dropdown menu labeled '[Select One]'. At the bottom right of this sub-section are two buttons: a yellow 'Save' button and a grey 'Cancel' button.

Tag Details

Tag details displays general information about the dealer tag. If the tag is currently checked out, the check out status and date fields will be filled in.

This screenshot shows the 'Dealer Tag Management' section with the 'Tag Details' tab selected. On the left, there is a large text input box labeled 'Tag' containing the value 'PCO63G'. To the right of this, a horizontal row of buttons labeled 'Actions' includes 'Edit', 'Assign RFID', 'Transfer RFID', 'Remove RFID', 'Mark Inactive', and 'Close Details'. Below this, there are two tabs: 'Tag Details' (which is active) and 'Check Out History'. Under the 'Tag Details' tab, there is a table with six columns: Tag Name, RFid, Employee, Date Added, Date Updated, and Date Inactive. The first row of the table shows the values: PCO63G, Assigned, Not Assigned, 7/26/2014 9:24 AM, (empty), and (empty). Below the table, there is a section for 'Status' which contains the text 'In Use - Stock No. 15440 - 2009 MERCURY MARINER - Dennis Hampton' and three date/timestamp fields: Out Date: 11/3/2014 9:50 AM, Due Date: 11/4/2014 9:50 AM.

Check Out History

Check out history for the dealer tag is displayed using the "Check Out History" tab. This screen may be useful in determining who last used a dealer tag in cases where it cannot be located.

The DOG™ – User Manual

The screenshot shows the DOG™ software interface. At the top, there is a logo for "stay secure systems" and navigation links for Vehicle Inventory, Reports, Customers, Management (which is highlighted in green), Tools, and a red button for "86 Alerts!". To the right, there are links for Fort Myers FL 33905, Ph: (239) 694-8080, Sales Department, Welcome Josh Kae, [Change], and [Log Out]. Below the navigation bar, a section titled "Dealer Tag Management" displays a tag number "PCO63G" in a box with an "Actions" button group containing "Edit", "Assign RFID", "Transfer RFID", "Remove RFID", "Mark Inactive", and "Close Details". A table below shows "Tag Details" and "Check Out History". The "Check Out History" tab is selected, showing a list of vehicle checkouts:

Date Out	User Out	Out Reason	Stock No	Vehicle Details
11/3/2014 9:50 AM	Dennis Hampton	Test Drive	15440	2009 MERCURY MARINER 4DR PREMIER SIL
10/13/2014 8:55 AM	Greg Smith	Test Drive	15498	2008 NISSAN ROGUE 4DR SL AWD SIL
9/4/2014 10:50 AM	Dennis Hampton	Test Drive	15440	2009 MERCURY MARINER 4DR PREMIER SIL
8/25/2014 10:03 AM	Noe Pena	Test Drive	15296	2006 PONTIAC G6 2dr Coupe GT BLK
8/9/2014 2:45 PM	GEORGE ROGGIERO	Test Drive	15091	2003 Dodge Grand Caravan Front-wheel Drive Passeng SIL
8/3/2014 2:29 PM	JUSTIN KRIEGER	Test Drive	15411	2008 Nissan Altima 4dr Sedan 2.5 BLK

Vehicles per page: 25 << < Select a page: 1 > >> Page 1 of 1

The DOG™ - Stay Secure System. Copyright Version 1.2.10.10

Wholesale

Vehicles sold to a wholesale company should be checked out as "Wholesale" to indicate who is buying the vehicles. Once the sale has been completed in your DMS, the vehicles will be filtered from the Wholesale list view.

Viewing Vehicles Assigned to Wholesale

Navigate to Management > Wholesale to view the Wholesale Management page.

The DOG™ – User Manual

Wholesale Management

Search by

Wholesale: [All] Wholesale RFid: scan RFID

Actions

Clear List Add New

Name	Address	Business Phone No.	Fax Phone No.	Email Address
Crest auto wholesales	14561 W HAL COURT. FT MYERS, FL 33905	(239) 980-4136		
Josh's Auto Wholesale Co.	123 Anywhere Lane. Fort Myers, FL 33905	(239) 298-1834	(239) 123-4567	josh@autosale.com

Wholesales per page: 25 << < Select a page: 1 > >> Page 1 of 1

Click on a wholesale company name to view the Wholesale Details tab. From here, you may edit the information, edit RFID information, mark the record inactive, and view all vehicles checked out to this company.

Wholesale Management

Wholesale

Crest auto wholesales

Actions

Edit Assign RFID Remove RFID Mark Inactive Close Details

Wholesale Details Vehicles Out

Company Name: RFid:

Crest auto wholesales Not Assigned

Address

14561 W HAL COURT FT MYERS FL 33905

Contact Name: Job Title:

MIKE MESSIER OWNER

Business Phone #: Fax Number #: Email Address:

(239) 980-4136

Comments

Add Comment

The Wholesale "Vehicles Out" tab displays all vehicles checked out (sold) to the wholesale company.

The DOG™ – User Manual

Wholesale Management

Wholesale

Crest auto wholesales

Actions

Edit Assign RFID Remove RFID Mark Inactive Close Details

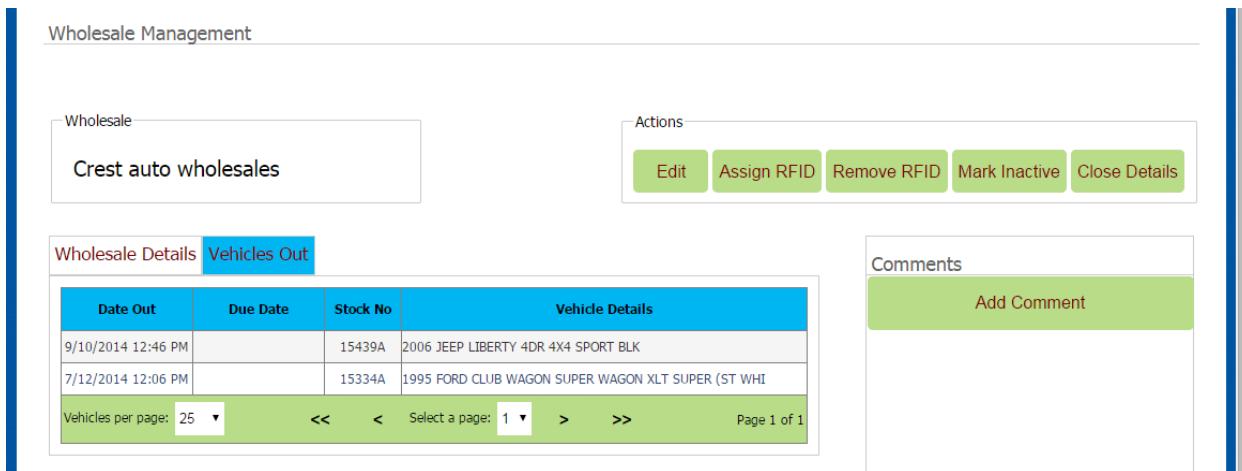
Wholesale Details Vehicles Out

Date Out	Due Date	Stock No	Vehicle Details	
9/10/2014 12:46 PM		15439A	2006 JEEP LIBERTY 4DR 4X4 SPORT BLK	
7/12/2014 12:06 PM		15334A	1995 FORD CLUB WAGON SUPER WAGON XLT SUPER (ST WHI)	

Vehicles per page: 25 << < Select a page: 1 > >> Page 1 of 1

Comments

Add Comment



Checking Vehicles Out to Wholesale

Vehicles that will be sold to a wholesale company should be checked out similarly to a Test Drive. Ensure the “Reason” dropdown is changed to Wholesale and then select the company name from the dropdown. Scan the key RFID if necessary and then click [Check Out].

1 Vehicle Found

K	P	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD #	Days	Batt	Fuel%	Last	DTC	
✓	✓	14478	2002	Chrysler	PT Crui	4dr Fro	GRY	92150	Dennys		In				18	13.75		439	0	...

Actions

Transfer Vehicle to Dept Mark Inactive Change RFID Remove RFID Transfer RFID Show Vehicle Details Close

Checking Vehicle Out

Reason: Wholesale

Vehicle Key:

Company Name: Crest auto wholesales

Contact Name: MIKE MESSIER

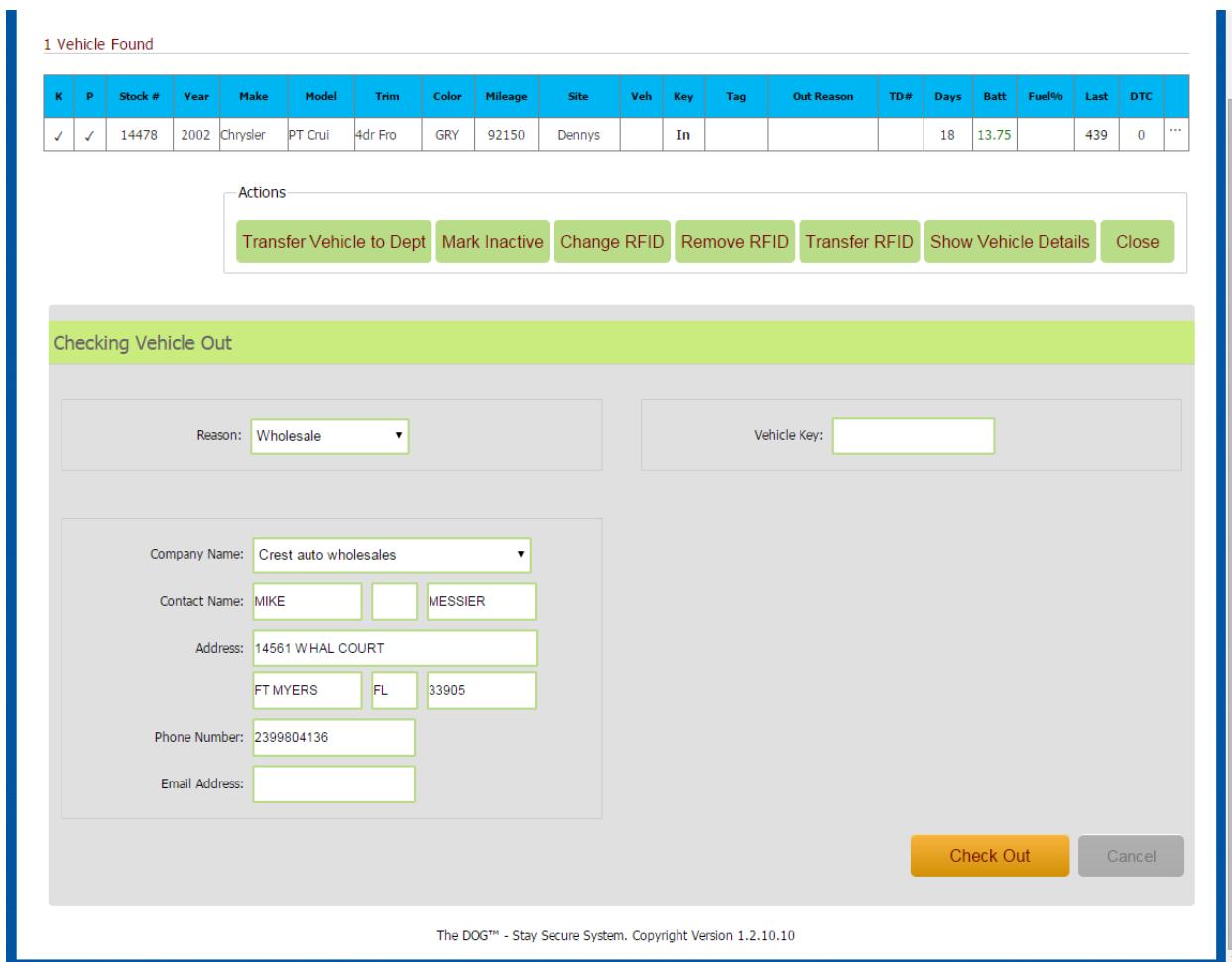
Address: 14561 W HAL COURT FT MYERS FL 33905

Phone Number: 2399804136

Email Address:

Check Out Cancel

The DOG™ - Stay Secure System. Copyright Version 1.2.10.10



The DOG™ – User Manual

Vendors

Vendors Management allows you to add and edit vendors in the vendor check out screen. Navigate to Management > Vendors to view Vendors Management.

Vendor List

The Vendors Management screen displays all active vendors. The list can be filtered by using the Vendor dropdown list or scanning the vendor's assigned RFID tag. Clear the current "Search by" filters by using the [Clear List] button. Click the [Add New] button to add new a new vendor record.

The screenshot shows the 'Vendors Management' screen. At the top, there is a navigation bar with tabs: Vehicle Inventory, Reports, Customers, Management (which is highlighted in yellow), Tools, and a red button labeled '86 Alerts !'. Below the navigation bar, the title 'Vendors Management' is displayed. Underneath the title, there is a search section with two dropdown menus: 'Vendor: [All]' and 'Vendor RFId: scan RFId'. To the right of these dropdowns is a 'Actions' button containing 'Clear List' and 'Add New' buttons. The main area contains a table listing ten vendors. The columns are: Name, Address, Business Phone No., Fax Phone No., and Email Address. The table rows are as follows:

Name	Address	Business Phone No.	Fax Phone No.	Email Address
MARTINS GARAGE	5188 PALM BEACH BLVD'. FT MYERS, FL 33905	(239) 693-5188		
GALLOWAY FORD	BOYSCOUT DR. FT MYERS, FL 33919	(239) 936-2193		
T & M UPHOLSTERY	5876 ENTRPRISE PKWY. FT MYERS, FL 33905	(239) 980-3541		
BIG D SUSPENSION	3105 FOWLER ST. FT MYERS, FL 33901	(239) 479-6221		
AUTO BODY SOLUTIONS	8913 NORTH FORK RD. FT MYERS, FL 33903	(239) 217-0577		
LARRYS AUTO UPHOLSTERY	4530 PALM BEACH BLVD. FT MYERS, FL 33905	(239) 694-1194		
MOBIL TECH AUTO REPAIR	12932 2ND ST. FT MYERS, FL 33905	(239) 872-9202		
CRAIGS BODY SHOP	721 PLUMOSA AVE. LEHIGH ACRES, FL 33968	(239) 369-3345		
DENNYS AUTO SERVICE	2900 MICHIGAN AVE . FT MYERS, FL 33901	(863) 265-9548		
Ds Auto Connection	2900 Michigan Ave. Ft Myers, FL 33901	(239) 362-0442	(239) 462-9853	

At the bottom of the screen, there are pagination controls: 'Vendors per page: 25 ▾', '<<', '<', 'Select a page: 1 ▾', '>', '>>', and 'Page 1 of 1'.

Vendor Details

Click on the vendor name to view the Vendor Details. General information about the vendor is displayed. The details may be edited by using the [Edit] button. An RFID may be assigned or removed using the [Assign RFID] and [Remove RFID] buttons respectively. If the vendor is no longer being used, click the [Mark Inactive] button to remove the vendor from the list.

The DOG™ – User Manual

Vendors Management

Vendor MARTINS GARAGE	Actions Edit Assign RFID Remove RFID Mark Inactive Close Details	
Vendor Details Vehicles Out		
Company Name: MARTINS GARAGE	RFID: Not Assigned	
Address 5188 PALM BEACH BLVD` FT MYERS FL 33905		
Contact Name: SERVICE MANAGER	Job Title: MANAGER	
Business Phone #: (239) 693-5188	Fax Number #:	Email Address:

Comments
Add Comment

Vehicles Out

Click the “Vehicles Out” tab on the Vendor Details page to view all vehicles currently checked out to the vendor. If the vehicle’s due date has been exceeded, it will be highlighted in red.

Vendors Management

Vendor DENNYS AUTO SERVICE	Actions Edit Assign RFID Remove RFID Mark Inactive Close Details																		
Vendor Details Vehicles Out																			
<table border="1"><thead><tr><th>Date Out</th><th>Due Date</th><th>Stock No</th><th>Vehicle Details</th></tr></thead><tbody><tr><td>11/12/2014 12:06 PM</td><td>11/13/2014 12:06 PM</td><td>15060A</td><td>2005 DODGE MAGNUM 4DR REAR-WHEEL DRIVE WAGO BLU</td></tr><tr><td>11/11/2014 12:14 PM</td><td>11/12/2014 12:14 PM</td><td>15511</td><td>1998 BUICK PARK AVENUE 4D SEDAN RED</td></tr><tr><td>8/11/2014 7:57 AM</td><td>8/12/2014 7:57 AM</td><td>14438</td><td>1999 DODGE INTREPID 4D SEDAN RED</td></tr></tbody></table>				Date Out	Due Date	Stock No	Vehicle Details	11/12/2014 12:06 PM	11/13/2014 12:06 PM	15060A	2005 DODGE MAGNUM 4DR REAR-WHEEL DRIVE WAGO BLU	11/11/2014 12:14 PM	11/12/2014 12:14 PM	15511	1998 BUICK PARK AVENUE 4D SEDAN RED	8/11/2014 7:57 AM	8/12/2014 7:57 AM	14438	1999 DODGE INTREPID 4D SEDAN RED
Date Out	Due Date	Stock No	Vehicle Details																
11/12/2014 12:06 PM	11/13/2014 12:06 PM	15060A	2005 DODGE MAGNUM 4DR REAR-WHEEL DRIVE WAGO BLU																
11/11/2014 12:14 PM	11/12/2014 12:14 PM	15511	1998 BUICK PARK AVENUE 4D SEDAN RED																
8/11/2014 7:57 AM	8/12/2014 7:57 AM	14438	1999 DODGE INTREPID 4D SEDAN RED																
Vehicles per page: 25 << < Select a page: 1 > >> Page 1 of 1																			

Comments
Add Comment

Employees

Employees Management allows you to add and edit employee login accounts. Navigate to Management > Employees to view Employees Management.

The DOG™ – User Manual

Employee List

The Employees Management list displays all currently active employee records. The list may be filtered by assigned employee RFID tag or by Role. The list filters may be removed by clicking the [Clear List] button. The [Add New] button allows you to add new employee records. The [Timesheet] button will allow you to create a timesheet report based on employee login and logout activity.

The screenshot shows a web-based application titled "Employees Management". At the top, there are search and filter options: "Search by Employee RFid" with a "scan RFID" button, "Filter by Role" with a dropdown menu set to "[All]", and an "Actions" panel containing "Clear List", "Add New", and "Timesheet" buttons. Below these are two tabs: "Employee List" (selected) and "Timesheet Report". The main area displays a table of employee data with columns: Name, Phone, Email, Primary Site, Role, and Last Access. The data includes:

Name	Phone	Email	Primary Site	Role	Last Access
DAYTO			Dennys	Manager	11/17/2014 3:58 PM
RANDA			Dennys	Salesman	11/17/2014 3:58 PM
Noe Pe			Dennys	Salesman	11/17/2014 3:52 PM
Josh Ka			Dennys	DB Administrator	11/17/2014 3:11 PM
Dennis			Dennys	DB Administrator	11/17/2014 1:12 PM
GEYDIS			Dennys	Office Staff	11/17/2014 9:37 AM
Sergio			Dennys	Lot Attendant	11/17/2014 9:03 AM
GARRY			Dennys	Salesman	11/15/2014 6:22 PM

Timesheet Report

Each day an employee logs in to the system, the start date/time is captured. The last time the employee logs in or out of the system, the end date/time is captured.

The Timesheet Report option allows you to set the criteria for viewing employee login and logout history. Criterial is based on date range and either employee role or employee name.

The screenshot shows the "Timesheet Report" configuration screen. It includes fields for "Date Range" (Date From: and Date To:), "Role(s)" (a list of roles: DB Administrator, Lot Attendant, Manager, Office Staff, Salesman), and "Employee(s)" (a list of employees: BRIAN, CARRO, CHIP B, Darryl F, DAVID, DAYTO, Dennis, Denny). At the bottom are "Run Report", "Clear All", and "Close" buttons.

The DOG™ – User Manual

After selecting the criteria, click [Run Report] to view the results.

Employees Management				
Timesheet Report				
Employee	Work Date	Start Time	End Time	Hours
GEYDIS [REDACTED]	11/11/2014 11/12/2014 11/13/2014 11/14/2014 11/17/2014	8:53 AM 9:40 AM 9:39 AM 9:00 AM 9:37 AM	8:53 AM 5:03 PM 4:51 PM 5:05 PM 9:37 AM	00 : 00 07 : 23 07 : 11 08 : 05 00 : 00
				22 : 39
Sergio [REDACTED]	11/11/2014 11/12/2014 11/13/2014 11/14/2014 11/17/2014	8:32 AM 9:10 AM 9:08 AM 9:10 AM 9:03 AM	4:42 PM 4:53 PM 4:25 PM 4:57 PM 9:03 AM	08 : 10 07 : 43 07 : 16 07 : 46 00 : 00
				30 : 55

Employee Details

Employee details displays employee name and contact information. You may edit the existing information, assign or remove an RFID, set the employee login password, or mark the record inactive.

Employees Management				
Employee	[REDACTED]	Actions	Edit Assign RFID Set Password Remove RFID Mark Inactive Close Details	
Employee Details	Access Info	Activity Log		
Name:	Address:			
GARRY [REDACTED]	2NORTH EAST [REDACTED]			
Home Phone #:	Mobile Phone #:	Business Phone #:	Email Address:	
(239) [REDACTED]	(239) [REDACTED]		[REDACTED]@AOL.COM	

The "Access Info" tab displays additional employee details and the most recent employee activity.

The DOG™ – User Manual

The screenshot shows the 'Employee Management' section. At the top, there's a search bar labeled 'Employee' containing 'GARRY'. To the right of the search bar is a group of green buttons labeled 'Actions': 'Edit', 'Assign RFID', 'Set Password', 'Remove RFID', 'Mark Inactive', and 'Close Details'. Below this, there are three tabs: 'Employee Details' (selected), 'Access Info', and 'Activity Log'. Under 'Employee Details', there are fields for 'RFid:' (Assigned), 'Password:' (*****), 'Default Site:' (Dennys), and 'Role:' (Salesman). At the bottom, there are fields for 'Date Added:' (11/11/2014 11:14 AM), 'Date Updated:' (11/11/2014 11:16 AM), 'Date Inactive:', 'Last Access Date:' (11/17/2014 5:45 PM), and 'Last IP Address:' (75.145.2.26).

The "Activity Log" displays all daily employee log in and log out activity.

This screenshot continues the 'Employee Management' interface. It shows the same top section with the search bar and 'Actions' buttons. The 'Activity Log' tab is selected. Below it is a table with four columns: 'Log In', 'Log Out', 'IP Address', and 'Log'. The table contains three rows of data:

Log In	Log Out	IP Address	Log
11/17/2014 5:45 PM	11/17/2014 5:47 PM	75.145.2.26	
11/15/2014 3:48 PM	11/15/2014 6:24 PM	75.145.2.26	
11/11/2014 11:31 AM	11/11/2014 11:37 AM	75.145.2.26	

At the bottom of the table, there are navigation controls: 'Records per page: 25 ▾', '<< < Select a page: 1 ▾ > >>', and 'Page 1 of 1'.

Company Account

The Company Account page displays the site information for the currently selected location.

General Layout

The primary contact's phone number should be a mobile number capable of receiving test messages (SMS). Important security and system alerts are sent to this number.

The DOG™ – User Manual

The screenshot shows a software interface for managing dealer account information. At the top right, there is a toolbar with 'Actions' (Edit, Close) buttons. Below the toolbar, the main area is divided into several sections:

- Dealer Account Information**:
 - Dealer Name: Dennis
 - Address: 4829 [REDACTED]
- Primary Contact Information**:
 - Contact Name: Dennis [REDACTED]
 - Phone #: [REDACTED]
 - Email Address: [REDACTED]
- Secondary Contact Information**:
 - Contact Name: JK [REDACTED]
 - Phone #: [REDACTED]
 - Email Address: [REDACTED]
- Floorplan Companies Preferences**:
 - Primary: [REDACTED]
 - Secondary: [REDACTED]
 - Tertiary: [REDACTED]

Express Checkout

Express Checkout provides the ability to quickly check out multiple vehicles. Navigate to Tools > Express Checkout.

General Layout

To check out multiple vehicles, select the Reason from the dropdown box and then provide any necessary information such as key RFID and dealer tag RFID. Click [Add to List] to add the item to a check out list. Repeat the process as many times as necessary.

The DOG™ – User Manual

Vehicle Inventory Reports Customers Management Tools **89 Alerts !**

Express Check Out

Checking Out

Reason: Key Check Out ▾

Vehicle and Tag Selection

Scan RFID: [] Scan Tag: [] Add to List

There is no Vehicle added to the List

When finished adding items to the list, click [Check Out] to check out all vehicles added to the check out list.

Express Check Out

Checking Out

Reason: Key Check Out ▾

Vehicle and Tag Selection

Scan RFID: [] Scan Tag: [] Add to List

OutTo	Vehicle	Tag
Key Check Out	Stock # 14816A - 2001 FORD 4X4 SD REGULAR CAB 137 IN TOREADOR RED CLEARCOAT ME	

Check Out **Cancel**

Vehicles on Floorplan

Vehicles may be assigned to a floor plan by navigating to Tools > Vehicles on Floorplan.

Vehicle Floorplan List

The Vehicles on Floorplan page displays all vehicles currently assigned to a floor plan. Searching, filtering, and paging options are displayed on the page.

The DOG™ – User Manual

Vehicles assigned to Floorplan Company

Search by

Stock #: Key:

Filter by

Status: [All] Flooplan: [All]

Actions

	Stock #	Year	Make	Model	Trim	Color	Mileage	Status	Flooplan Company
<input checked="" type="checkbox"/>	14877	2001	Cadillac	DeVille	4dr Sed	SIL	83035	In	Finance Options
<input checked="" type="checkbox"/>	15330	2007	JEEP	LIBERTY	4X4 LIM	SIL	47271	In	Finance Options
<input checked="" type="checkbox"/>	14478	2002	Chrysler	PT Crui	4dr Fro	GRY	92150	In	Finance Options
<input checked="" type="checkbox"/>	15359	2012	GMC	SIERRA	1500 4X	SIL	24046	In	Finance Options
<input checked="" type="checkbox"/>	14435	2004	KIA	SORENTO	4 DR WA	TAN	116277	In	Main Financial
<input checked="" type="checkbox"/>	15083A	2002	NISSAN	FRONTIE	4X2 KIN	GRN	EXEMPT	In	Main Financial
<input checked="" type="checkbox"/>	14572	2003	FORD	TAURUS	4dr Sed	SIL	118168	In	Main Financial
<input checked="" type="checkbox"/>	15247	2010	CHRYSLER	300	4DR TOU	BLK	68928	In	Main Financial
<input checked="" type="checkbox"/>	14631	2000	PONTIAC	GRAND P	4dr Sed	BLU	93095	In	Main Financial
<input checked="" type="checkbox"/>	15193A	2001	OLDSMOBILE	ALERO	4DR SED	BLUE	150108	In	Main Financial
<input checked="" type="checkbox"/>	15096	2004	Nissan	Quest	4dr Fro	GRY	0	In	Main Financial
<input checked="" type="checkbox"/>	15101	1954	STUDEBAKER	CHAMPIO	2D	YEL	EXEMPT	In	Main Financial
<input checked="" type="checkbox"/>	9184A	1991	CHEVROLET	G-30	BOX	WHI	100292	In	Main Financial
<input checked="" type="checkbox"/>	15208	2012	FORD	EXPLORE	4DR XLT	SIL	117010	Out for Key Check Out - 60 day(s)	Main Financial
<input checked="" type="checkbox"/>	14921	2003	DODGE	GRAND C	FWD VAN	BLU	105009	In	Main Financial
<input checked="" type="checkbox"/>	15121	2005	CHRYSLER	PT CRUI	4 DR WA	SIL	140906	In	Main Financial
<input checked="" type="checkbox"/>	14644	2009	CHRYSLER	SEBRING	4 DSN	GLD	74591	In	Main Financial
<input checked="" type="checkbox"/>	15256	2007	Dodge	Ram 150	4x2 Qua	BLK	92768	In	Main Financial
<input checked="" type="checkbox"/>	15206	2010	KIA	FORTE	2DR KOU	SIL	40558	In	Main Financial
<input checked="" type="checkbox"/>	15138	2011	Chevrolet	Impala	4dr Sed	BLK	71000	Out for Test Drive - 101 day(s)	Main Financial

Vehicle Details

Click on a stock number in the Vehicle Floorplan list to view the vehicle details.

Vehicles assigned to Floorplan Company

Vehicle

2001 Cadillac DeVill

Actions

Vehicle Details

Stock #:	VIN:	Mileage:
14877	1G6KD54Y51U184830	83035
Status:	Floorplan Company:	
In	Finance Options	

The DOG™ – User Manual

Adding Vehicles to List

Vehicles may be assigned to a floorplan from the Vehicle Floorplan list by using the [Add Vehicle(s) to List] button.

	Stock #	Year	Make	Model	Trim	Color	Mileage	Status	Floorplan Company
X	14877	2001	Cadillac	DeVille	4dr Sed	Sil	83035	In	Finance Options
X	15330	2007	JEEP	LIBERTY	4X4 LIM	SIL	47271	In	Finance Options
X	14478	2002	Chrysler	PT Cru	4dr Fro	GRY	92150	In	Finance Options
X	15359	2012	GMC	SIERRA	1500 4X	SIL	24046	In	Finance Options

Adjust the “By” dropdown and follow the onscreen directions.

	Stock #	Year	Make	Model	Trim	Color	Mileage	Status	Floorplan Company
X	14877	2001	Cadillac	DeVille	4dr Sed	Sil	83035	In	Finance Options
X	15330	2007	JEEP	LIBERTY	4X4 LIM	SIL	47271	In	Finance Options

Select the floorplan company from the dropdown list and then click [Add to List] to assign the floorplan to the vehicle.

	Stock #	Year	Make	Model	Trim	Color	Mileage	Status	Floorplan Company
X	14816A	2001	FORD	F-350 4X4 SD REGULAR CA	4X4 SD	TOREA	203826	Out for Vendor - 217 day(s)	Vendor

Edit Floorplan

From the floorplan vehicle details screen, click on [Edit Floorplan].

The DOG™ – User Manual

Vehicles assigned to Floorplan Company

Vehicle
2001 Cadillac DeVill

Actions
[Edit Floorplan](#) [Remove Floorplan](#) [Close Details](#)

Vehicle Details

Stock #:	VIN:	Mileage:
14877	1G6KD54Y51U184830	83035
Status:	Floorplan Company:	
In	Finance Options	

Select the floorplan company from the dropdown list and then click [Save].

Vehicles assigned to Floorplan Company

Find Vehicle
Stock # 14877 - 2001 Cadillac DeVill 4dr Sedan S

Floorplan Company Selection
Select Company: [Finance Options](#) [See Full List](#)

[Save](#) [Cancel](#)

Remove Floorplan

From the floorplan vehicle details screen, click on [Remove Floorplan].

Vehicles assigned to Floorplan Company

Vehicle
2001 Cadillac DeVill

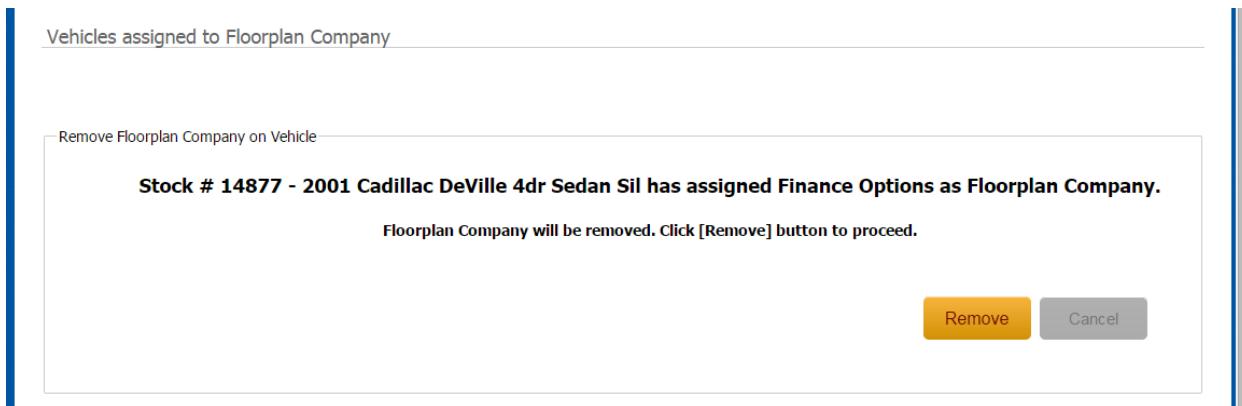
Actions
[Edit Floorplan](#) [Remove Floorplan](#) [Close Details](#)

Vehicle Details

Stock #:	VIN:	Mileage:
14877	1G6KD54Y51U184830	83035
Status:	Floorplan Company:	
In	Finance Options	

Click [Remove] to complete the process.

The DOG™ – User Manual



You may also remove vehicles from floorplan from the Floorplan Vehicle list screen. Click on the red "x" to remove the floorplan from the vehicle. A popup confirmation dialog will appear. Click [OK] on the dialog to complete the process.

Vehicle Inventory Reports Contacts Management Tools Alerts (16!) RFID Lookup:

Management of Vehicles assigned to Floorplan Company

Search by Stock #: Key: VIN:

The page at <https://dealer.deviceonguard.com> says: Are you sure you want to remove this vehicle from floorplan?

OK **Cancel**

#	Stock #	Year	Make	Model	Trim	Color	Mileage	Status	Floorplan Company	Action
1	15571	2012	KIA	SEDONA	VAN LX	WHI	33442	Out for Test Drive - 192 day(s)	First Bank Of Clewiston	<input type="button" value="Remove"/>
2	15614	2010	Nissan	Altima	4dr Sed	Blu	60489	Out for Sold - 122 day(s)	First Bank Of Clewiston	<input type="button" value="Remove"/>
3	15749	2005	NISSAN	ALTIMA	4DR SED	GLD	0	Out for Vendor - 14 day(s)	AUTO USE	<input type="button" value="Remove"/>

Actions

Alerts

The security alerts notifies users of problems that may require immediate action. Important alerts are also sent via SMS (text message) to the primary contact at each site.

General Layout

The current count of all active alerts is displayed on the right of the Tools menu. Vehicles with an active security alert are flagged with a red "!" in the right-most column of the Vehicle Inventory screen.

The DOG™ – User Manual

A screenshot of the Vehicle Inventory page. At the top, there are tabs for Vehicle Inventory, Reports, Contacts, Management, Alerts (16!), and RFID Lookup. A red arrow points to the 'Management' tab. Below the tabs are search and filter fields. The search section includes 'Search by' fields for 'Key' and 'Stock #' with a pencil icon. The filter section includes 'Filter by' dropdowns for Site (Dennys), Status (All Status), Out Reason (All Reasons), Year (Select One), Make (Select One), and Model (Select One). To the right are refresh and RSS icons. Below the filters, it says '125 Vehicles Found' and shows a table with columns: #, K, A, Stock #, Year, Make, Model, Trim, Color, Mileage, Site, Veh, Key, Tag, Out Reason, TD#, Days, Batt, Fuel%, Last, DTC, RSSI. The table contains three rows of vehicle data.

Searching and Filtering

Click the Alerts menu to view all alerts. Searching, filtering, and paging options are available.

A screenshot of the Alerts page. At the top, there are tabs for Vehicle Inventory, Reports, Contacts, Management, Tools, Alerts (16!), and RFID Lookup. A red arrow points to the 'Alerts' tab. Below the tabs are search and filter fields. The search section includes 'Search by' fields for 'Stock #' and 'Key: scan RFID'. The filter section includes 'Filter by' dropdowns for Status (Active), Type (All Types), and Code (All Codes). To the right is an 'Actions' button with a green 'Clear List' button. Below the filters, it says 'Alerts' and '16 Active Activities Found' with a 'Select All' link. At the bottom is a table with columns: #, A, Added, Type, Code, APS, Stock No - Year, Make, Model, VIN, Description, Cleared. The table contains three rows of alert data.

Deactivating Alerts

Click on the red icon in the right-most column to clear the single security alert. The date/time and username of the user who cleared the alert will be stored.

Vehicle Alert Activity

All alerts for a vehicle are viewable from the vehicle's Security > Alert Activity tab.

The DOG™ – User Manual

[Vehicle Inventory](#) | [Reports](#) | [Contacts](#) | [Management](#) | [Tools](#) | [Alerts \(16\)](#) | [RFID Lookup:](#)

Actions

[Check Vehicle Out](#)

[Change RFID](#)

[Edit Vehicle Details](#)

[Show Vehicle Details](#)

[Transfer Vehicle to Dept](#)

[Remove RFID](#)

[Edit Vehicle Location](#)

[Go Back to List](#)

[Transfer RFID](#)

[Mark Vehicle Inactive](#)

1 Vehicle Found

#	K	A	Stock #	Year	Make	Model	Trim	Color	Mileage	Site	Veh	Key	Tag	Out Reason	TD#	Days	Batt	Fuel%	Last	DTC	RSSI
1	✓	✓	15379	2006	CHRYSLER	PACIFICA	4DR F	WHI	142347	Dennys		In			1	1	13.95		1		120

[Check Out Activity](#) | [Vehicle Details](#) | [Attachments](#) | **Security**

Alert Activity		APS Activity		Information Available						
#	A	Date Added	APS	Type	Code	Description			Date Cleared	
1	!	8/12/2015 12:59 PM	20723930	VEHICLE	500	UNAUTHORIZED VEHICLE ACCESS - Vehicle 15379 2006 Chrysler Pacifica. Status Eng. Running. Site Dennys, S/N 20723930.				⌚
2	!	8/12/2015 8:42 AM	20723930	APS	202	APS Serial No. 20723930 was manually paired.				⌚
3	!	8/1/2015 1:44 PM	20723939	APS	205	APS Serial No. 20723939 was manually unpaired.			8/5/2015 9:53 AM	✓
4	!	7/28/2015 10:32 AM	20723939	APS	202	APS Serial No. 20723939 was manually paired.			8/5/2015 9:53 AM	✓

APPENDIX A

Master Radio Specifications

APPENDIX B

APS Specifications

The CPU LED is flashed 5 times in ½ second to indicate CPU is running. The CPU LED is flashed 10 times in ½ second to indicate start of radio initialization. The CPU LED is flashed 5 times in ½ second to indicate normal operation starting. For the first 30 seconds of normal operation, the radio will send and receive every 5 seconds. The CPU LED will flash once a second. The CPU LED is extinguished to conserve battery life from then on.

Timing is based on the 4 Mhz crystal so no time calibration is required.

Battery voltage and thresholds are presented in raw un-calibrated form. A calibration factor, CalFactor, is stored in The DOG™ and can be used by the PC. A default value is provided without calibration.

Normal Operation

Current APS state is transmitted periodically to the Base Station. The interval is specified in the PollDelay parameter.

Every 10ms, battery voltage is read and compared to the threshold values. The filtering attempts to remove noise 5 times larger and ignores ramping battery voltage changes. The 4-pole filter looks for about a 1 second drop. The filtering reduces by about 1/2 the measured voltage so a 0.1 volt drop must use a DomeLightThreshold value representing about half of that (0.05 volts).

Alarm Conditions

An alarm only occurs for about 1 second at the start of the drop but can be extended by AlarmHoldTime. Only one of the battery alarms is issued at a time. DomeLight is further inhibited for DomeLightBlock seconds after other battery alarms. NOTE that multiples of these alarms can occur at once since they overlap. For example: A LowBattery can also appear as Starting (but possibly not DomeLight if the long-term average has changed). A priority filter selects a single flag among Charging, LowBattery , Starting, and DomeLight in that order.

If an alarm is issued (added) or removed, the radio is instructed to transmit the current APS state. It is transmitted AlarmSends times with AlarmResendDelay between each. If all alarms cease (Flags=0), the previous alarm flags are extended and may continue to be sent for AlarmHoldTime. In that way, short spurious 0's during DomeLight and Charging and etc. alarms are ignored until all alarms have ceased for AlarmHoldTime. • While alarms conditions are present, APS state is transmitted every AlarmPollDelay instead of PollDelay, except if LowBattery is the only alarm condition, then LowBatPollDelay is used.

General Transmission Operation

When transmission is needed, the radio is brought out of sleep mode. If it does not respond, the radio is reinitialized. The previous receive RSSI value is retrieved from the radio and inserted into the outgoing message and the CRC is calculated. The message is sent. The DOG™ will wait up to three seconds for an

The DOG™ – User Manual

optional response. If a response arrives, it can contain new configuration settings. The radio is put back to sleep after three seconds or a response arrives. If The DOG™ configuration has changed, it will be saved to Flash. The settings stored in the radio are not affected.

APPENDIX C

TROUBLESHOOTING

Vehicle Not Reporting

1. Ensure your account is not delinquent.
2. Check your Internet connection.
3. Ensure the DOGMaster computer is running.
4. Ensure the antenna and Master are properly connected.
5. Ensure the DOGMaster service is running.
6. Check the APS to ensure it is plugged into the vehicle.
7. Ensure the APS is powering on.
8. Check the APS and ensure it is visible to the Master.
9. Check the application and ensure the vehicle's VIN is being received or the APS has been manually linked to the vehicle.