



Using Route Vision

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Introduction to RouteVision

RouteVision ensures that your drivers and vehicles are achieving maximum efficiency by comparing real-time route progress to optimized route paths. RouteVision allows you to improve customer service by decreasing customer wait time and giving customers more accurate arrival estimates. By tracking the progress of your vehicles, you can also identify vehicles being misused or stolen and you can cut maintenance costs by identifying and correcting unnecessary route detours.

How RouteVision Works

RouteVision runs on a 2.5G wireless network utilizing GPRS/GSM and SIM card technology. It is installed in a truck and hardwired to a power supply. A compact antenna is installed on top of the truck. You can program your RouteVision software to communicate with the host server at regular intervals.

Uses of RouteVision

- Allows you to track your fleet at all times using the Automatic Vehicle Location (AVL) system
- Displays vehicle location, speed, direction, and delivery information for the next client
- Access RouteVision from any computer connected to the Internet via hosted service.
- Print detailed maps and driving directions
- Create, manage, and optimize routes daily with LSG's RoutePerfect software
- Import optimized routes from RoutePerfect and watch your drivers' progress from stop to stop
- Export optimized routes to the web-based GPS tracking tool.
- Reduce fuel costs and driver labor hours.

Using RouteVision

- 1 Open Google Earth by clicking the shortcut that LSG has installed for your trucks. Google Earth opens with the default view.
- 2 In the Places box, click + (plus sign) next to the My Places heading. Your Company name appears in the list. In the example, Strickland Paper is the company name. See Figure 1.
- 3 Click + next to your company name to expand the divisions of the company. In this example, the Birmingham Group is the only division. Unassigned and NonReporting categories also display here.

Using RouteVision


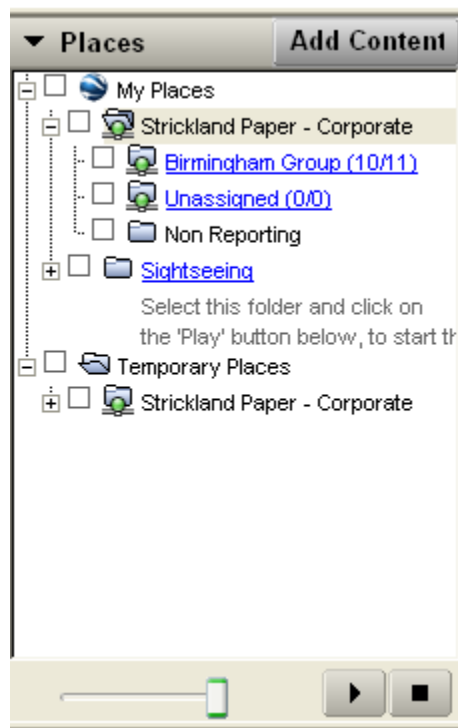
- 4 Double-click a division to display the trucks in that division on the map. Enter your user name and password if prompted. The map zooms in to display the region in which the trucks are located. Each truck is designated by a  icon.
- 5 You can click + next to the group name to display the individual truck names in the Places box.
- 6 Double-click a truck in the list or on the map to zoom in on the truck to open the Cartasite dialog box. See Figure 2.

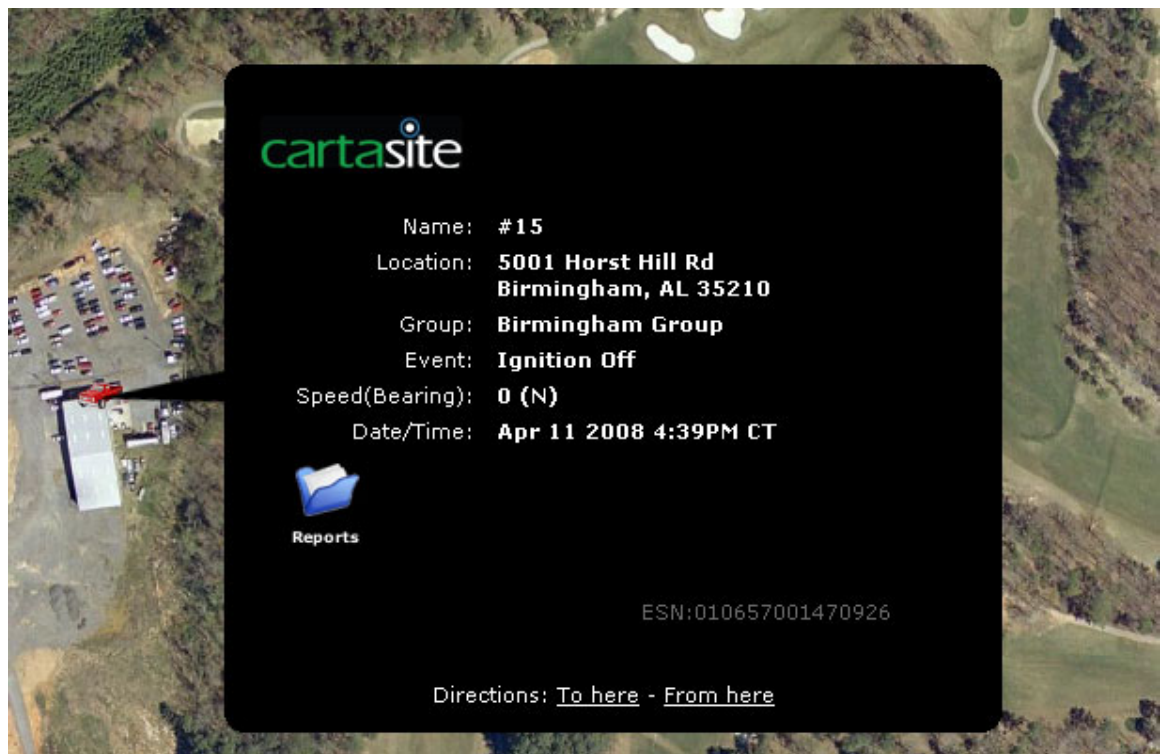
Figure 1: The Places Box



7 The dialog box displays the following information:

- Name
- Location
- Group
- Event
- Speed (Bearing)
- Date/Time
- Reports (For more information see the heading **Using Reports.**)

**Figure 2: The
Cartasite Dialog
Box**



Tracking a Vehicle

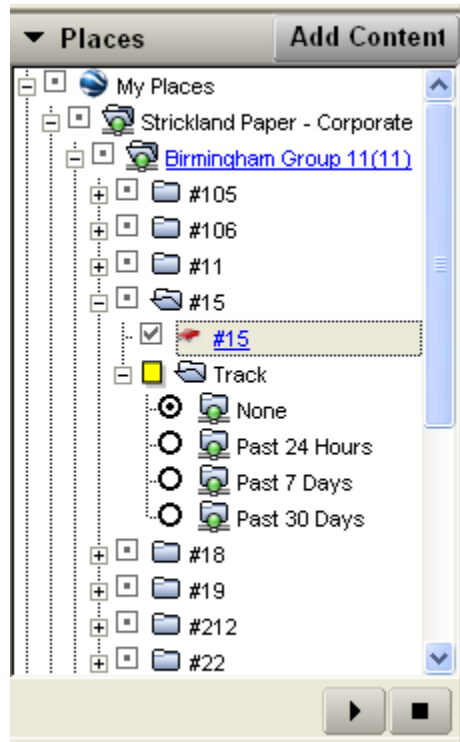
- 1 In the vehicle list, click + next to the truck folder. The truck name and Track folder display.
- 2 Click + next to Track. See Figure 3. The following options are available:
 - None
 - Past 24 Hours
 - Past 7 Days
 - Past 30 Days.
- 3 Arrows appear on the map showing the route over the specified time period. Mouse over the arrow to see date, time, speed, and direction. For further information, you can click the arrow.

Using Reports

You can run the following reports to track progress of your trucks:

- Stop
- Movement
- Stop & Movement

Figure 3: The Track Option in the Places Box



- Instate Mileage
- Non Reporting
- Assets By Count
- Daily Vehicle Stop Report.

Click  to open the report list and select the report to run. The report

opens in a new dialog box. On each of the reports, a toolbar like the one below displays immediately before the report that allows you to make changes to how you navigate, export, and print the report.


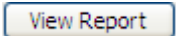


You can:

- Select the page of the report to view
- Zoom in or out
- Find specific text in the report
- Select a format in which to export the report
- Refresh the report
- Print the report.

The Stop Report

The Stop Report shows a record of each time a particular vehicle stops. Matching this report with your Route Plan developed in RoutePerfect can ensure that drivers remain on schedule. For a copy of the Stop Report, see Figure 4.

- 1 In the Vehicle/Asset Name box, use the drop-down box to select the vehicle name.
- 2 Enter the time zone on which you are reporting in the Time Zone box.
- 3 Click the Begin Date/Time and End Date/Time boxes and enter the respective information. Click  to search for the date.
- 4 Click .
- 5 The report displays the following information about the vehicle selected:
 - Print Date/Time
 - Time Zone

Using RouteVision

- Begin Date/Time
- End Date/Time
- Location/Address
- Virtual Odometer
- Stop Duration (in minutes)
- Idle Time (in minutes).

The Movement Report

The Movement Report shows a record of the movement of a vehicle every 5 minutes. From this, you can see the vehicle's approximate path to determine if it is following the assigned route. For a copy of the Movement Report, see Figure 5.


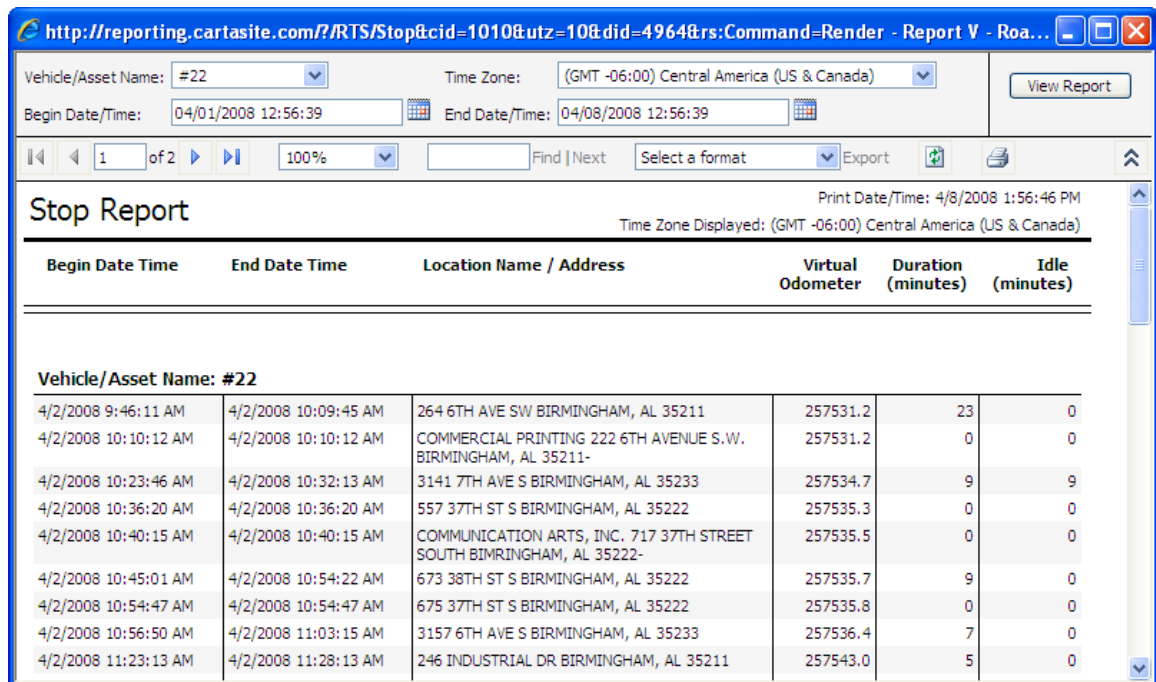
- 1 In the Vehicle/Asset Name box, use the drop-down box to select the vehicle name.
- 2 Enter the time zone on which you are reporting in the Time Zone box.
- 3 Click the Begin Date/Time and End Date/Time boxes and enter the respective information. Click  to search for the date.

Figure 4: The Stop Report



http://reporting.cartasite.com/?/RTS/Stop&cid=1010&utz=10&did=4964&rs:Command=Render - Report V - Roa...

Vehicle/Asset Name: #22 Time Zone: (GMT -06:00) Central America (US & Canada) View Report

Begin Date/Time: 04/01/2008 12:56:39 End Date/Time: 04/08/2008 12:56:39

1 of 2 100% Find | Next Select a format Export

Print Date/Time: 4/8/2008 1:56:46 PM
Time Zone Displayed: (GMT -06:00) Central America (US & Canada)

Begin Date Time	End Date Time	Location Name / Address	Virtual Odometer	Duration (minutes)	Idle (minutes)
Vehicle/Asset Name: #22					
4/2/2008 9:46:11 AM	4/2/2008 10:09:45 AM	264 6TH AVE SW BIRMINGHAM, AL 35211	257531.2	23	0
4/2/2008 10:10:12 AM	4/2/2008 10:10:12 AM	COMMERCIAL PRINTING 222 6TH AVENUE S.W. BIRMINGHAM, AL 35211-	257531.2	0	0
4/2/2008 10:23:46 AM	4/2/2008 10:32:13 AM	3141 7TH AVE S BIRMINGHAM, AL 35233	257534.7	9	9
4/2/2008 10:36:20 AM	4/2/2008 10:36:20 AM	557 37TH ST S BIRMINGHAM, AL 35222	257535.3	0	0
4/2/2008 10:40:15 AM	4/2/2008 10:40:15 AM	COMMUNICATION ARTS, INC. 717 37TH STREET SOUTH BIRMINGHAM, AL 35222-	257535.5	0	0
4/2/2008 10:45:01 AM	4/2/2008 10:54:22 AM	673 38TH ST S BIRMINGHAM, AL 35222	257535.7	9	0
4/2/2008 10:54:47 AM	4/2/2008 10:54:47 AM	675 37TH ST S BIRMINGHAM, AL 35222	257535.8	0	0
4/2/2008 10:56:50 AM	4/2/2008 11:03:15 AM	3157 6TH AVE S BIRMINGHAM, AL 35233	257536.4	7	0
4/2/2008 11:23:13 AM	4/2/2008 11:28:13 AM	246 INDUSTRIAL DR BIRMINGHAM, AL 35211	257543.0	5	0

- 4 Click .
- 5 The report displays the following information about the vehicle selected:
 - Print Date/Time
 - Time Zone
 - Date/Time
 - Location/Address
 - Virtual Odometer
 - Speed (in mph)
 - Bearing (in degrees).

Figure 5: The Movement Report

Print Date/Time: 4/8/2008 2:35:49 PM
Time Zone Displayed: (GMT -06:00) Central America (US & Canada)

Date Time	Location Name / Address	Virtual Odometer	Speed (mph)	Bearing (degree)
Vehicle/Asset Name: #22				
4/2/2008 9:34:29 AM	19TH ST ENSLEY BIRMINGHAM, AL 35208	257526.9	7	E (83.5)
4/2/2008 9:39:30 AM	390 SR-4 BIRMINGHAM, AL 35204	257529.5	0	N (0)
4/2/2008 9:44:31 AM	592 MARTIN LUTHER KING DR BIRMINGHAM, AL 35211	257530.9	4	S (178.4)
4/2/2008 10:14:47 AM	BIRMINGHAM DIVISION LAB 1400 6TH AVENUE SOUTH BIRMINGHAM, AL 35233-	257532.9	0	N (0)
4/2/2008 10:19:48 AM	2387 6TH AVE S BIRMINGHAM, AL 35233	257533.9	0	N (0)
4/2/2008 10:24:50 AM	3141 7TH AVE S BIRMINGHAM, AL 35233	257534.7	0	N (0)
4/2/2008 10:32:21 AM	3141 7TH AVE S BIRMINGHAM, AL 35233	257534.7	10	NE (62.5)
4/2/2008 10:37:23 AM	557 37TH ST S BIRMINGHAM, AL 35222	257535.3	0	N (0)
4/2/2008 10:42:25 AM	COMMUNICATION ARTS, INC. 717 37TH STREET SOUTH BIRMINGHAM, AL 35222-	257535.6	5	SE (116.5)
4/2/2008 11:08:16 AM	1782 6TH AVE S BIRMINGHAM, AL 35233	257537.6	28	SW (241.6)
4/2/2008 11:13:17 AM	CITY OF BIRMINGHAM WAREHOUSE STORES 431 6TH AVENUE SOUTH	257538.8	41	SW (240.3)

The Stop & Movement Report

The Stop & Movement Report shows a record of each time the vehicle is in idle or the vehicle's ignition is stopped. In addition, it keeps track of the movement of the vehicle every 5 minutes that it is in motion. This report gives you the benefits of both the Stop Report and the Movement Report in one location. For a copy of the Stop & Movement Report, see Figure 6.


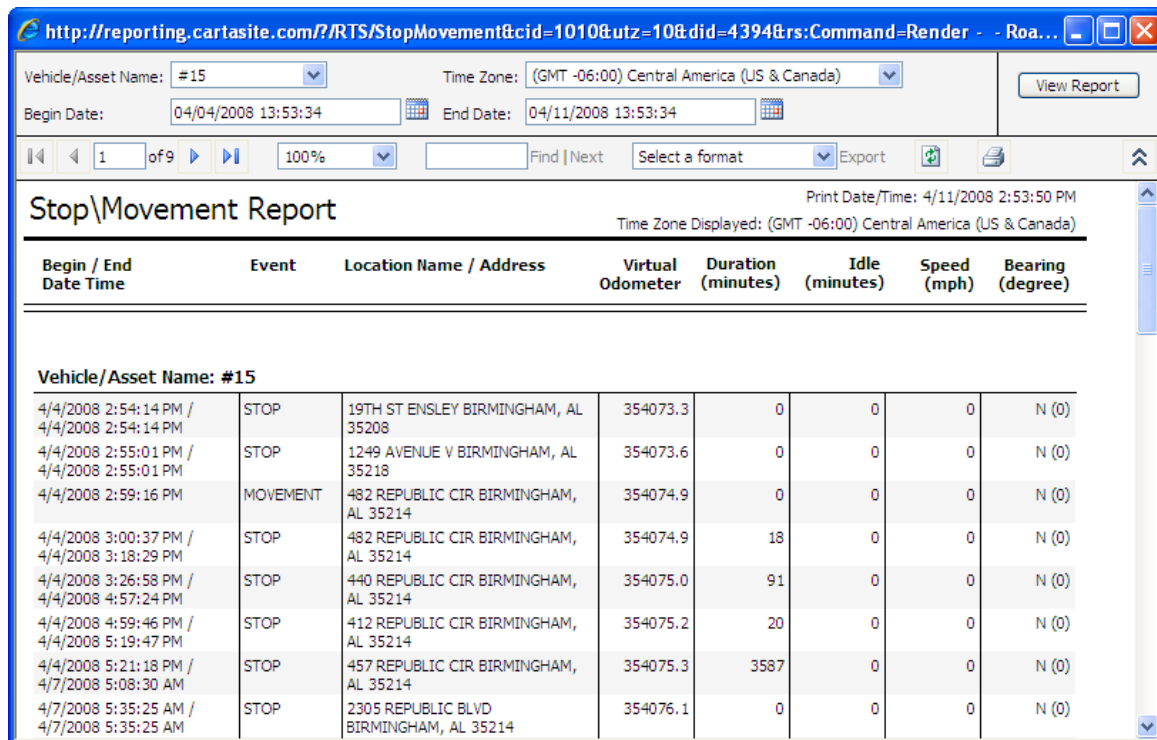
- 1 In the Vehicle/Asset Name box, use the drop-down box to select the vehicle name.
- 2 Enter the time zone on which you are reporting in the Time Zone box.
- 3 Click the Begin Date/Time and End Date/Time boxes and enter the respective information. Click  to search for the date.
- 4 Click .
- 5 The report displays the following information about the vehicle selected:
 - Print Date/Time
 - Time Zone
 - Begin and End Date/Time

Figure 6: The Stop & Movement Report



- Event (Stop or Movement)
- Location/Address
- Virtual Odometer
- Duration (in minutes)
- Idle (in minutes)
- Speed (in mph)
- Bearing (in degrees).

The Instate Mileage Report

The Instate Mileage Report allows you to keep track of the mileage driven in each state. This is useful if you have trucks that cross state lines during their delivery routes or if you are near a state border and need to track whether trucks are making unauthorized departures from their route. For a copy of the Instate Mileage Report, see Figure 7.


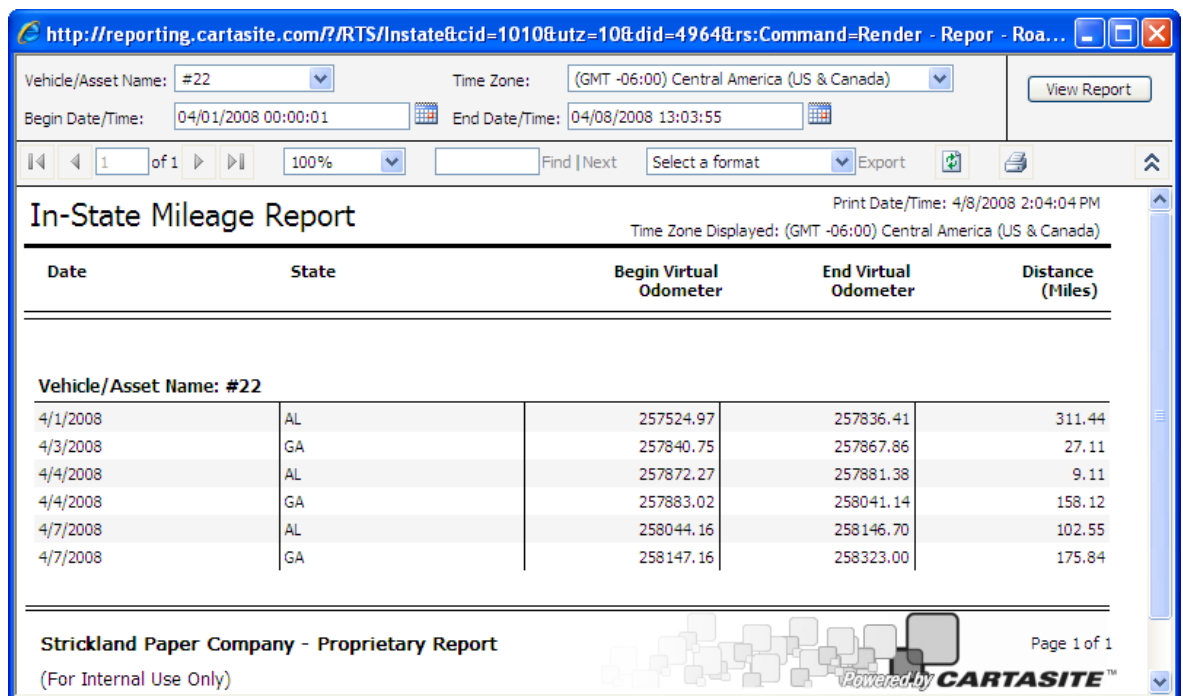
- 1 In the Vehicle/Asset Name box, use the drop-down box to select the vehicle name.
- 2 Enter the time zone on which you are reporting in the Time Zone box.
- 3 Click the Begin Date/Time and End Date/Time boxes and enter the respective information. Click  to search for the date.

Figure 7: The Instate Mileage Report



http://reporting.cartasite.com/RTS/Instate&cid=1010&utz=10&did=4964&rs:Command=Render - Repor - Roa...

Vehicle/Asset Name: #22 Time Zone: (GMT -06:00) Central America (US & Canada) View Report

Begin Date/Time: 04/01/2008 00:00:01 End Date/Time: 04/08/2008 13:03:55

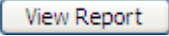
1 of 1 100% Find | Next Select a format Export

In-State Mileage Report Print Date/Time: 4/8/2008 2:04:04 PM
Time Zone Displayed: (GMT -06:00) Central America (US & Canada)

Date	State	Begin Virtual Odometer	End Virtual Odometer	Distance (Miles)
Vehicle/Asset Name: #22				
4/1/2008	AL	257524.97	257836.41	311.44
4/3/2008	GA	257840.75	257867.86	27.11
4/4/2008	AL	257872.27	257881.38	9.11
4/4/2008	GA	257883.02	258041.14	158.12
4/7/2008	AL	258044.16	258146.70	102.55
4/7/2008	GA	258147.16	258323.00	175.84

Strickland Paper Company - Proprietary Report (For Internal Use Only) Page 1 of 1
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Using RouteVision

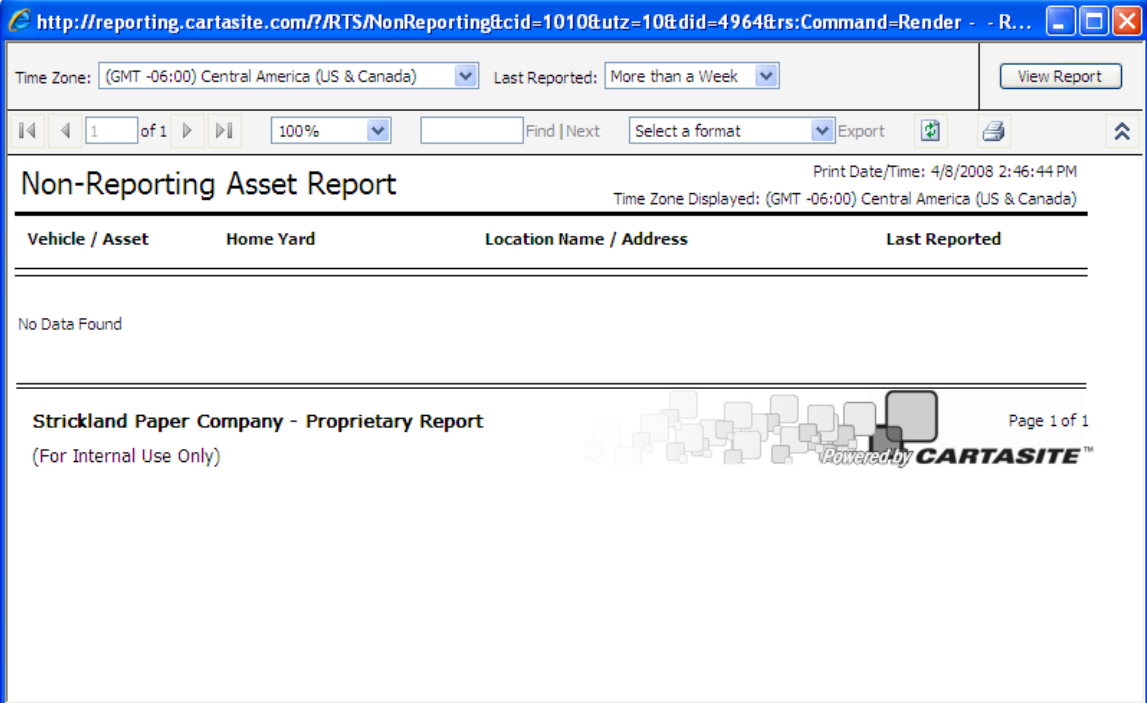
- 4 Click .
- 5 The report displays the following information about the vehicle selected:
 - Print Date/Time
 - Time Zone
 - Date
 - State
 - Begin Virtual Odometer
 - End Virtual Odometer
 - Distance (in miles).

Non Reporting

The Non Reporting Report allows you to keep a record of vehicles on which you are not currently collecting data. For a copy of the Non Reporting Report, see Figure 8.

- 1 Enter the time zone on which you are reporting in the Time Zone box.

Figure 8: The Non Reporting Report



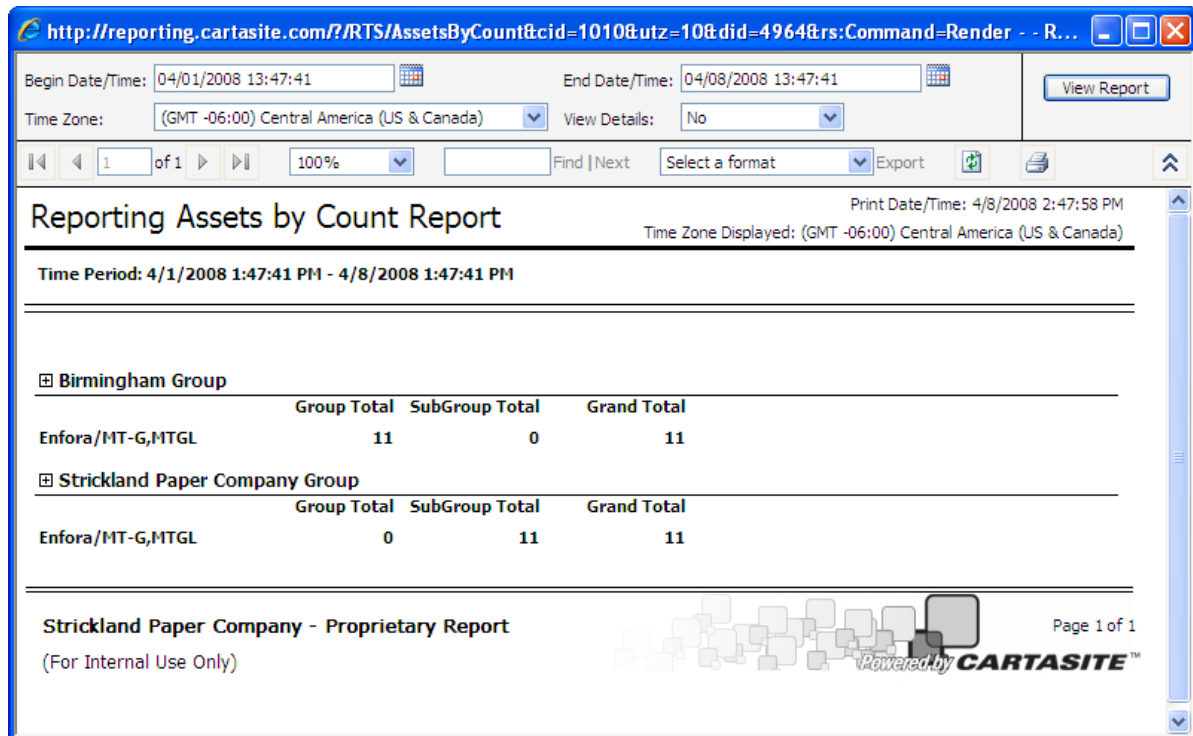
The screenshot shows a web browser window with the URL `http://reporting.cartasite.com/RTS/NonReporting&cid=1010&utz=10&did=4964&rs:Command=Render`. The interface includes a 'Time Zone' dropdown menu set to '(GMT -06:00) Central America (US & Canada)', a 'Last Reported' dropdown menu set to 'More than a Week', and a 'View Report' button. Below the navigation bar, the report title 'Non-Reporting Asset Report' is displayed, along with the print date/time '4/8/2008 2:46:44 PM' and the time zone 'Time Zone Displayed: (GMT -06:00) Central America (US & Canada)'. A table with the following headers is shown: 'Vehicle / Asset', 'Home Yard', 'Location Name / Address', and 'Last Reported'. The table content is empty, with the text 'No Data Found' centered below the header. At the bottom of the page, there is a footer that reads 'Strickland Paper Company - Proprietary Report (For Internal Use Only)' and a logo for 'Covered by CARTASITE™'.

- 2 In the Last Reported box, use the drop-down arrow to select the time period since the vehicle was last reported.
- 3 Click .
- 4 The report displays the following information about the vehicle selected:
 - Print Date/Time
 - Time Zone
 - Vehicle/Asset
 - Home Yard
 - Location Name/Address
 - Last Reported Time.


Assets By Count Report

The Assets By Count Report allows you to view the number of trucks in each group and subgroup. If you select Yes in the View Details box, the NodeID, Asset Name, and Device Type display. For a copy of the Assets By Count Report, see Figure 9.

Figure 9: Assets By Count Report



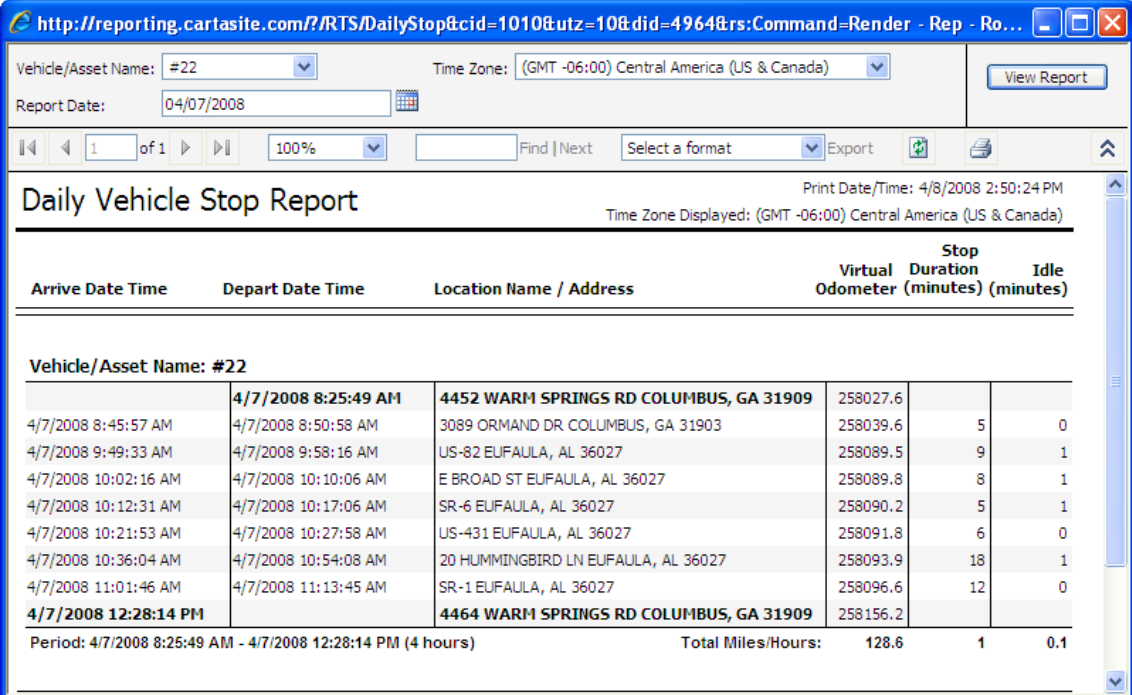
Using RouteVision

- 1 Click the Begin Date/Time and End Date/Time boxes and enter the respective information. Click  to search for the date.
- 2 Enter the time zone on which you are reporting in the Time Zone box.
- 3 In the View Details box, select Yes or No.
- 4 Click .
- 5 The report displays the following information about the vehicle selected:
 - Print Date/Time
 - Time Zone
 - Time Period
 - Group Totals
 - Subgroup Totals
 - Grand Totals.


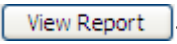
Daily Vehicle Stop Report

The Daily Vehicle Stop Report keeps a record of all the stops that a vehicle makes in a single day. It records each time the vehicle stops for over 5 minutes. For a copy of the Daily Vehicle Stop Report, see Figure 10.

Figure 10: The Daily Vehicle Stop Report



Arrive Date Time	Depart Date Time	Location Name / Address	Virtual Odometer	Stop Duration (minutes)	Idle (minutes)
Vehicle/Asset Name: #22					
4/7/2008 8:45:57 AM	4/7/2008 8:25:49 AM	4452 WARM SPRINGS RD COLUMBUS, GA 31909	258027.6		
4/7/2008 8:45:57 AM	4/7/2008 8:50:58 AM	3089 ORMAND DR COLUMBUS, GA 31903	258039.6	5	0
4/7/2008 9:49:33 AM	4/7/2008 9:58:16 AM	US-82 EUFAULA, AL 36027	258089.5	9	1
4/7/2008 10:02:16 AM	4/7/2008 10:10:06 AM	E BROAD ST EUFAULA, AL 36027	258089.8	8	1
4/7/2008 10:12:31 AM	4/7/2008 10:17:06 AM	SR-6 EUFAULA, AL 36027	258090.2	5	1
4/7/2008 10:21:53 AM	4/7/2008 10:27:58 AM	US-431 EUFAULA, AL 36027	258091.8	6	0
4/7/2008 10:36:04 AM	4/7/2008 10:54:08 AM	20 HUMMINGBIRD LN EUFAULA, AL 36027	258093.9	18	1
4/7/2008 11:01:46 AM	4/7/2008 11:13:45 AM	SR-1 EUFAULA, AL 36027	258096.6	12	0
4/7/2008 12:28:14 PM		4464 WARM SPRINGS RD COLUMBUS, GA 31909	258156.2		
Period: 4/7/2008 8:25:49 AM - 4/7/2008 12:28:14 PM (4 hours)			Total Miles/Hours:	128.6	1 0.1

- 1 In the Vehicle/Asset Name box, use the drop-down box to select the vehicle name.
- 2 Enter the time zone on which you are reporting in the Time Zone box.
- 3 In the Report Date box, select the date on which to report. Click  to search for the date.
- 4 Click .
- 5 The report displays the following information about the vehicle selected:
 - Print Date/Time
 - Time Zone
 - Arrive Date/Time
 - Depart Date/Time
 - Location Name/Address
 - Virtual Odometer
 - Stop Duration (in minutes)
 - Idle Time (in minutes)
 - Total Miles
 - Total Hours.