 TRACKPOINT SYSTEMS	DRAWING NO:		REV:
	WI 158-3377		2
	APPROVAL		DATE
	ISSUER:	BAS	8/17/08
	ENGINEERING:	BAS	8/17/08
TrIPS Website Application Instructions	PRODUCTION/MATERIAL:	SRJ	8/17/08
	QA APPROVAL:	WRC	8/17/08

REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
1	Preliminary Release	8/17/08	WRC
2	Updated for Tab Structure	10/13/08	WRC

Accessing the application:

The Tr/IPS™ Web Application is accessible from the TrackPoint Systems website at www.trackpointsystems.com.

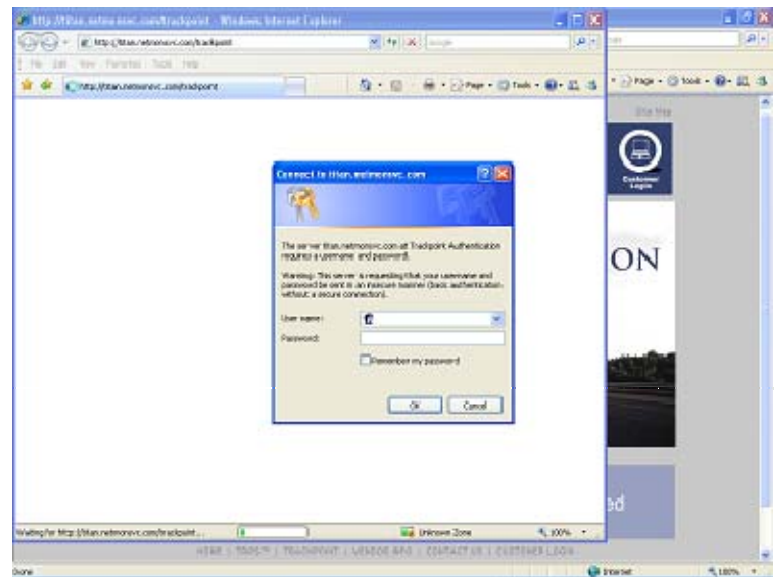
To access this application from the website, using Internet Explorer, start by clicking on the CUSTOMER LOGIN button at the top right



Logging in to the application:

At the prompt screen, enter the Username and Password assigned to you by TrackPoint. If you do not have a Username and Password, contact your customer sales representative (CSR).

TrackPoint can provide different levels of access for different logins. Contact your CSR for assistance with this feature.



The Main Screen:

The Main Screen contains a “tab” structure to allow simple, single-click navigation to the different areas of the website. Any tab can be selected at any time by clicking on the blue hyperlinked text on the tab.

Highlighted tab indicates the current selection

Tab Structure

Multiple pages are displayed and navigated using these controls

Any page or report can be exported to Adobe PDF or sortable CSV / Excel

Map	Trailer ID	Date	Time	Location	Battery	Sensor Type	Load Status %
	UQP4694873670	2008-10-06	07:00:57	+	96	Load	100
	UQP4695698461	2008-10-06	07:00:36	+	99	Load	76

The standard version of the web application contains these five tabs:

1) Status Report

The Status Report is a condensed table of the most recent report from each device. The Status Report contains the following information:

- Date and Time of the report, using the time zone of **your Internet browser**
- The location of the trailer, if a Friendly Location has been entered
- Battery percentage
- Any sensor data contained within that message

The Status Report allows basic data to be quickly viewed. Some tips for using the Status Report features are contained below.

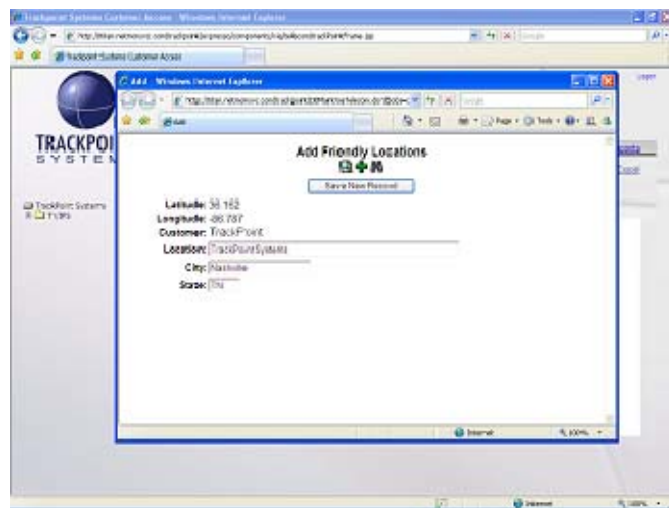
Adding Friendly Locations

The “Friendly Location” feature allows you to enter common locations, such as your trailer yard(s) or common customers. This is later used for creating Yard Checks.

To enter a Friendly Location, simply click on the green cross located in the “Location” column for a report from a known location. This will open a new screen as shown at the right. On the new screen, enter the Location, City, and State. Click on “Save New Record” and then close the window.

Any device that reports from that location will now have the Friendly Location name in the location column.

Note: You will have to refresh the Status Report to see this change. To refresh the report, simply click on the blue hyperlinked “Status Report” tab.



Mapping from within the Status Report

To view the position of your trailer on a map, click on the binoculars in the first column of each row. This will open a new window showing the position of the trailer on a map. Full map features are described in the section on Mapping below.



Viewing historical data from the Status Report

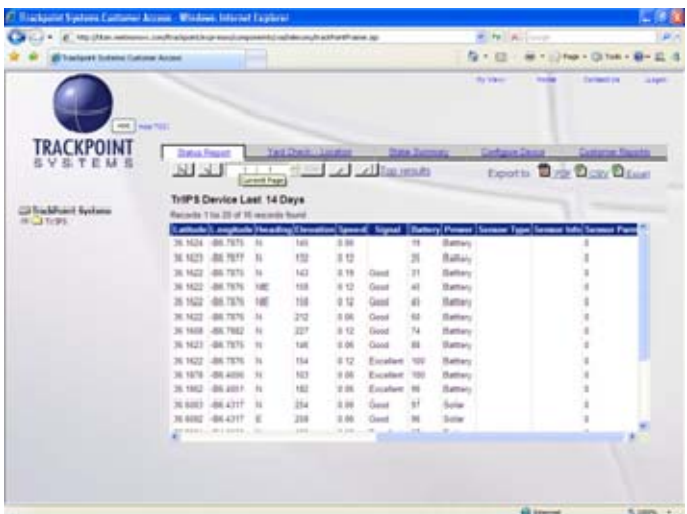
To look at the last 14 days of data from a single device, simply click on the Trailer ID from within the Status Report. This will open the last 14 days of full report data for that device.

The full report data includes for each message:

- Trailer ID
- Unit ID (phone number)
- Date and Time of the message
- Friendly Location (if present)
- Latitude and Longitude
- Heading (compass)
- Elevation (feet)
- Speed (miles / hour)
- GSM signal quality
- Battery percentage
- Power (solar or battery)
- Sensor type and data

Depending on the data present, you may need to use the scrolling bars at the bottom and right sides of the display window to see all the data, as shown at right.

Tip: Any column can be sorted by clicking on the column header.



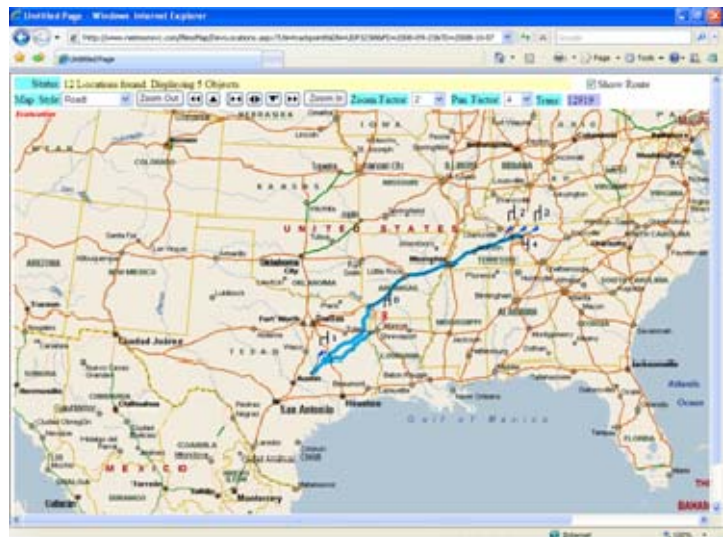
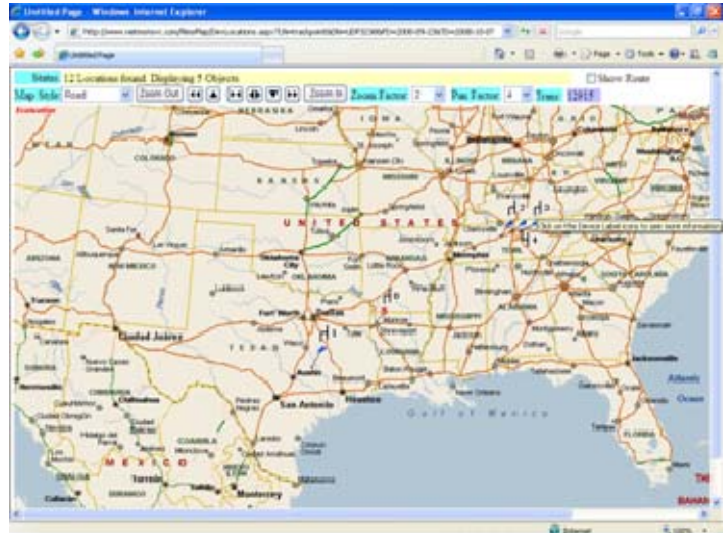
Mapping historical data from the Status Report

From the 14-day drill down, the historical data can be mapped and a reconstructed route can be viewed.

To view a map of historical data, click on any of the binoculars in the first column of the historical data display. This will display a map in a new window, with multiple pinpoints displaying the position reports. The report you clicked on is at point 0, and the number of the point increments with each older report.

Note that if there are multiple reports from the same location, only a single point is shown for that location.

To create a route, click on the check box labeled "Show Route" in the top right corner of the map. The application will calculate the likeliest route and display the route using a blue line.



2) Yard Check – Location

The Yard Check – Location feature allows a conventional yard check to be executed at the click of a button.

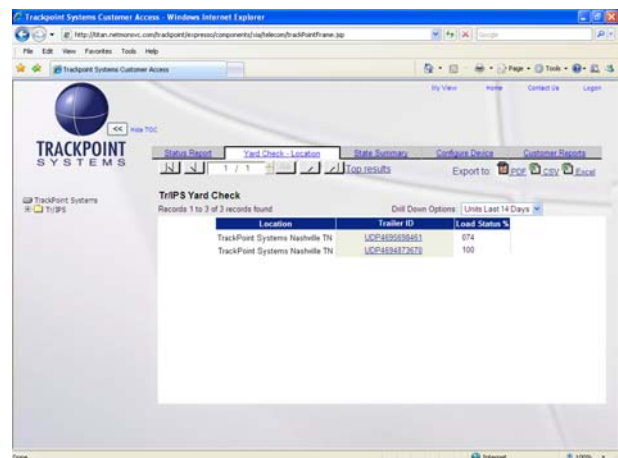
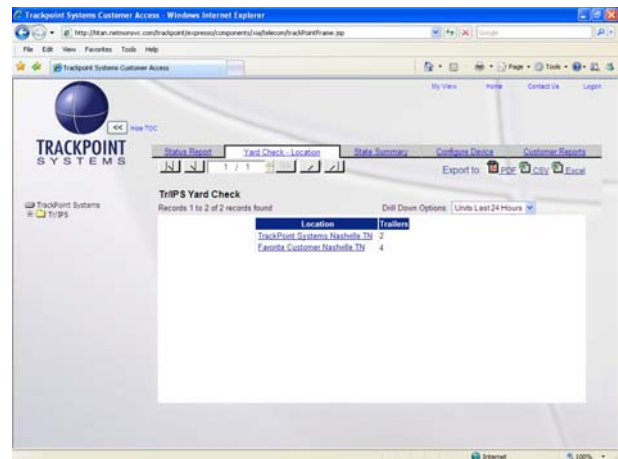
The Yard Check – Location report searches the database for messages sent from devices between 6 AM and 8 AM each morning in the default time zone, and compares the location of each message to the list of Friendly Locations.

The Yard Check screen

The Yard Check screen presents a list of yards (Friendly Locations) with trailers present that morning. If there are no trailers on a yard (Friendly Location), there is no listing for that yard.

Clicking on the hyperlinked yard (Friendly Location) will pull up a list of the trailers on that yard along with the load status of that trailer.

Clicking on the hyperlinked trailer ID will then pull up the standard 14-day historical data screen, similar to that of the Status Report.



3) State Summary

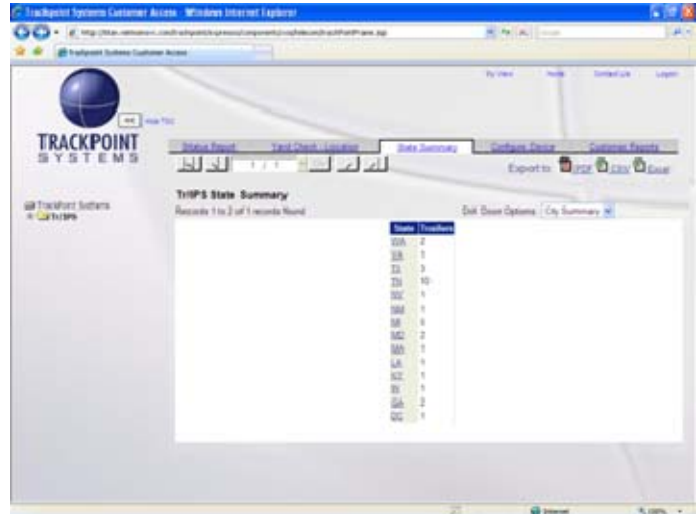
The State Summary allows the user to view the number of trailers currently in each state. By drilling down into the State Summary, the user can determine how many trailers are within a radius of major cities within each state, and further which trailers specifically are located within that city.

The State Summary main screen

The State Summary is selected by clicking on the hyperlinked tab.

The main screen simply displays how many trailer's last report was in each state, or in other words, how many trailers are in each state.

Only those states containing trailers are displayed.



State	Trailers
GA	2
TX	1
IL	3
IN	10
SC	1
MD	1
SP	5
NC	2
MS	1
LA	1
SC	1
TX	1
GA	2
NC	1

Drilling down to the City Summary

From the State Summary screen, clicking on one of the state abbreviations will drill down to the city summary. This will display the number of trailers within the displayed radius of each city.

NOTE: Due to the overlapping radii of some cities, a single trailer may appear in the list of two different cities. For example, a trailer located halfway between Dallas and Fort Worth would likely show up within the 25 mile radius of each city center.



City	Daily Trailers with Tolerance	Distance in Miles
MARSHALL	2	40.00
MERIDIAN	4	40.00
MORGANVILLE	1	40.00
JEFFERSON CITY	1	40.00
CLARKSVILLE	2	25.00

4) Configure Devices

The Configure Devices tabs allows the user to change the operating mode of one or many devices, or to request a single “ping” of one or many devices. Configuring a device results in a message being sent to the device with the desired operating mode.

The Configure Devices screen

The Configure Devices screen is accessed by clicking on the hyperlinked Configure Devices tab.

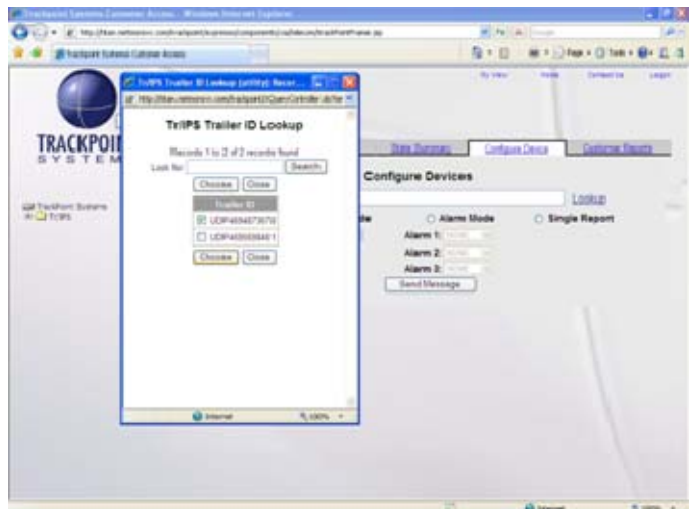
To configure a device, you must enter a Trailer ID and then select one of the three options – Periodic Mode, Alarm Mode, or Single Report.



Selecting a trailer to configure

To select a trailer or trailers, either enter the Trailer ID in the text box, or click on the hyperlinked Lookup.

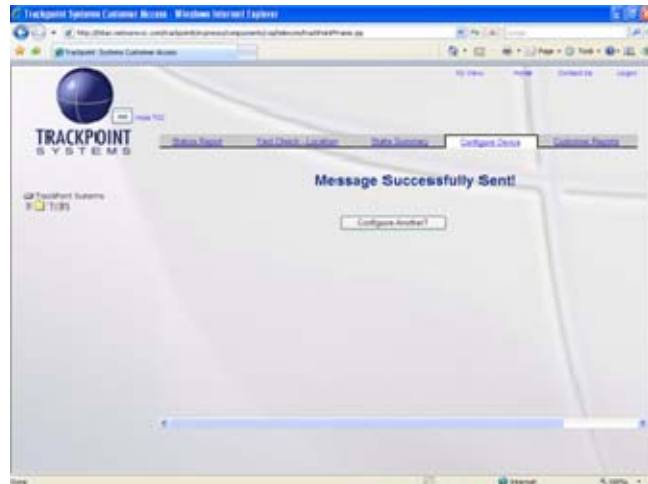
From the Trailer ID Lookup window, simply check the box next to the trailer ID(s) you wish to configure. Click on “Choose” and then “Close” to return to the Configure Devices screen.



Successful Message

When the application has accepted the request and sent the messages to the device(s), it will display that message has been successfully sent.

From this screen, select "Configure Another" to reconfigure or send a Single Report request to another device. Or, click on any of the hyperlinked tabs to go to another screen.



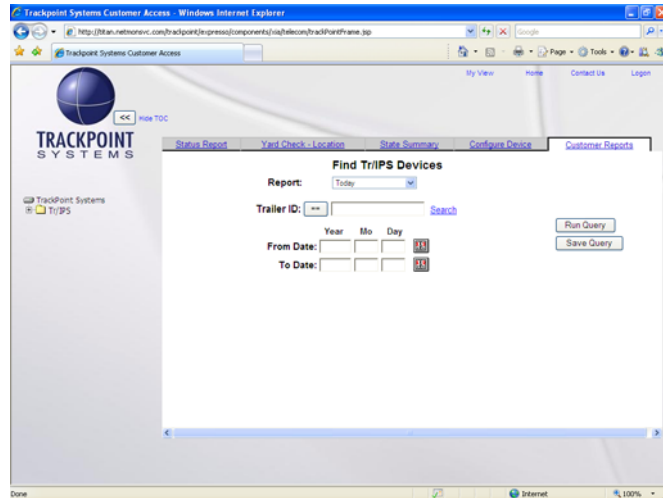
5) Customer Reports

The Customer Reports tab provides access to standard and any custom created reports.

The Customer Reports screen

The Customer Reports screen is accessed by clicking on the hyperlinked Customer Reports tab.

To view a Custom Report, you must select the report from the drop down menu. If no Trailer ID is entered, the report will look for all trailers; if Trailer ID is entered it will only run the report for the selected trailers.



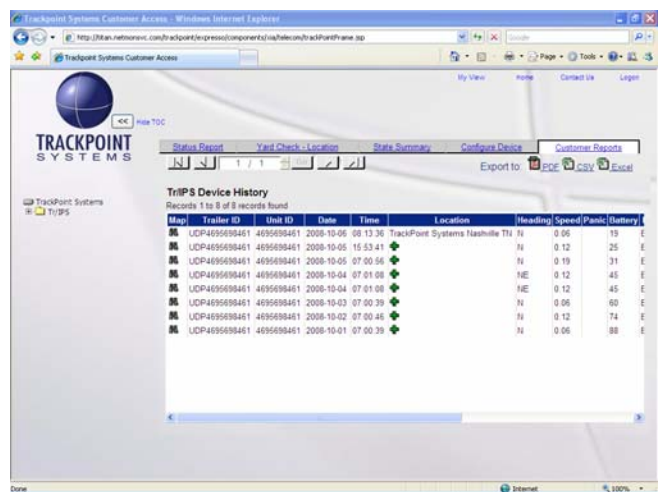
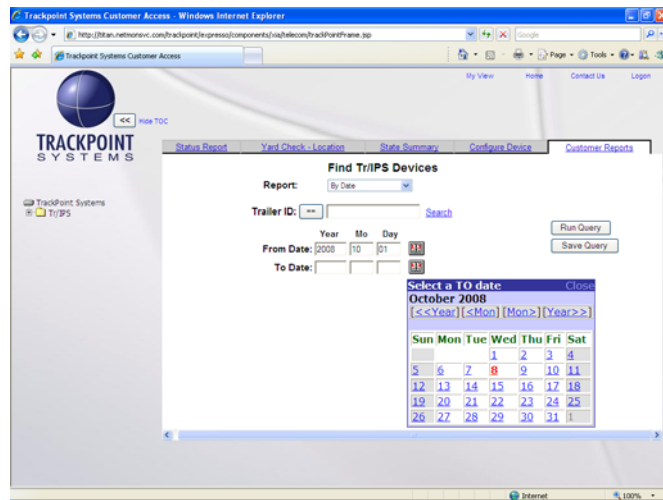
Reports by Date

Several reports are complete listings of all messages from all (or a selected number) of devices for a selected period of time.

The standard Today, Yesterday, and Last 7 Days reports are available from the drop-down menu and provide complete data from the respective time periods.

The By Date report allows the user to enter a date range using the From Date and To Date boxes. Dates can be entered manually or selected using a calendar by clicking on the date book icon to the right of the From Date and To Date fields.

The report format is identical to the Status Report drill-down as described previously.



Idle Trailers Report

The Idle Trailers report provides a list of all trailers who have not moved during the 72 hour period prior to running the report.

Idle Trailers are determined by evaluating the position of each trailer in each message. An error of roughly $\frac{1}{4}$ " mile is built-in to prevent trailers moving within a yard from appearing to have been used.

The data in the Idle Trailer report includes the trailer ID, nearest city or Friendly Location of the trailer, and the length of time it has been idle.

Note that clicking on a Trailer ID will display the history for that trailer.



The screenshot shows the TrackPoint Systems web application interface. The main content area displays the 'Idle Trailers Report' with a table of results. The table has columns for 'Trailer ID', 'Last Message', 'City', 'Days Idle', and 'Days Full'. Two rows of data are visible.

Trailer ID	Last Message	City	Days Idle	Days Full
LCF000000000000	2008-10-14 08:10:00	TrackPoint Systems Nashville TN	10	0
LCF000000000000	2008-10-14 08:10:00	TrackPoint Systems Nashville TN	10	0

Empty Trailers Report

The Empty Trailers report provides a list of all trailers who are currently empty.

Empty Trailers are determined by evaluating the load sensor parameter in each message.

The data in the Empty Trailer report includes the trailer ID, nearest city or Friendly Location of the trailer, date and time of the oldest Empty message, and number of days Empty.

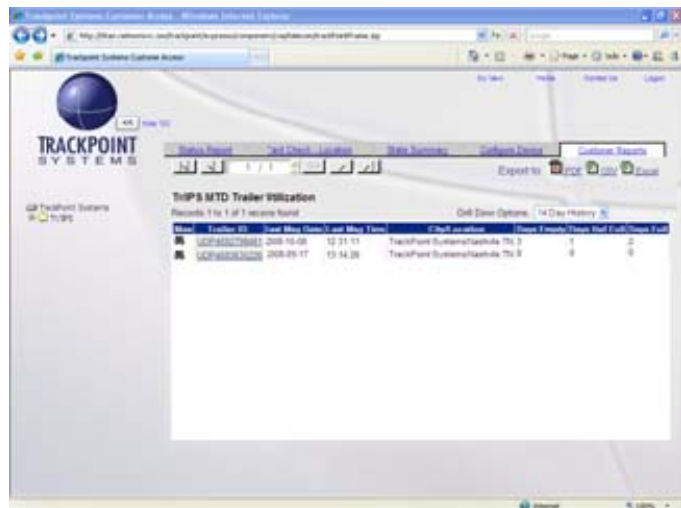
From the Empty Trailer report there are several drill-down options as seen in the drop-down box above the data display. To access these reports, select the desired report from the drop-down box and then click on the desired Trailer ID.

The standard 14-day history is available, as are Month-to-date and Year-to-date utilization show the number of days during the period that the trailer was Full (> 80% capacity), Empty, or Partially Full.



The screenshot shows the TrackPoint Systems web application interface. The main content area displays the 'Empty Trailers Report' with a table of results. The table has columns for 'Trailer ID', 'Last Message', 'City', 'Days Empty', and 'Days Full'. Two rows of data are visible.

Trailer ID	Last Message	City	Days Empty	Days Full
LCF000000000000	2008-10-08 13:34:00	TrackPoint Systems Nashville TN	1	0
LCF000000000000	2008-09-17 12:14:20	TrackPoint Systems Nashville TN	21	0

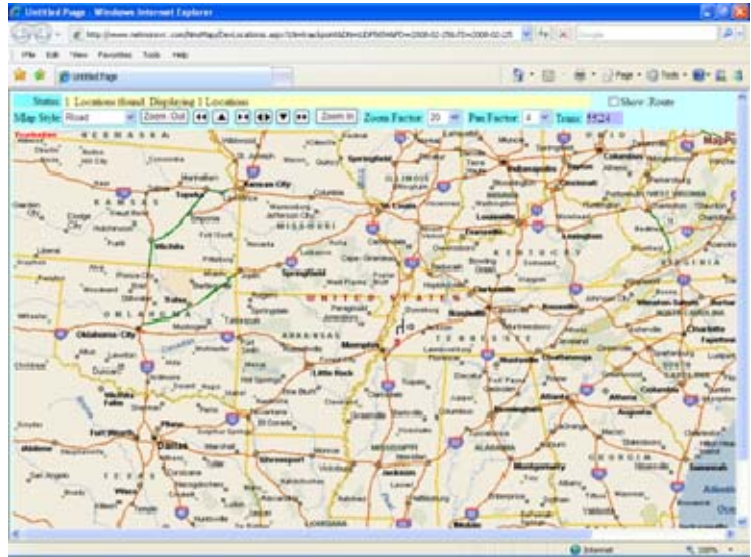


The screenshot shows the TrackPoint Systems web application interface. The main content area displays the 'MTD Trailer Utilization Report' with a table of results. The table has columns for 'Trailer ID', 'Last Message', 'City', 'Days Full', 'Days Empty', and 'Days Partially Full'. Two rows of data are visible.

Trailer ID	Last Message	City	Days Full	Days Empty	Days Partially Full
LCF000000000000	2008-10-08 13:31:11	TrackPoint Systems Nashville TN	0	0	0
LCF000000000000	2008-09-17 13:14:08	TrackPoint Systems Nashville TN	0	0	0

Mapping Controls

- For any map, the opening screen will be a view of the device on a regional scale.
- Typically a good focused view can be easily found by changing the Zoom Factor to 100 and clicking once on Zoom In.
- Other standard map controls are:
 - Map Style: Selects between Road, Locator, and Terrain. Road is the standard view; Locator removes Roads and allows easier visualization of the pushpin; Terrain includes standard geographical representations.
 - Zoom In / Out: Zoom according to Zoom Factor
 - Zoom Factor: Larger numbers cause a larger amount of zoom
 - Pan Left / Right / Up / Down: Pan according to the Pan Factor
 - Pan Factor: Larger numbers cause a larger amount of pan
 - Zoom Full Out: Zooms to a complete view of the U.S.
 - Zoom Full In: Zooms to the closest street-level view



Zoom Out

Zoom In

Zoom Factor: 100

Pan Factor: 4

