Introduction to PtMS IS - the Interactive Scheduler

The PTMS Interactive Scheduler is an automated schedule tool for PtMS for Windows that allows users to perform automated scheduling, trip editing, client lookups in a Windows based interface.

An online video with sound that demonstrates the basic features of the PTMS Interactive Scheduler can be viewed by click on this link: www.tsa-fl.com/ISDemo.html

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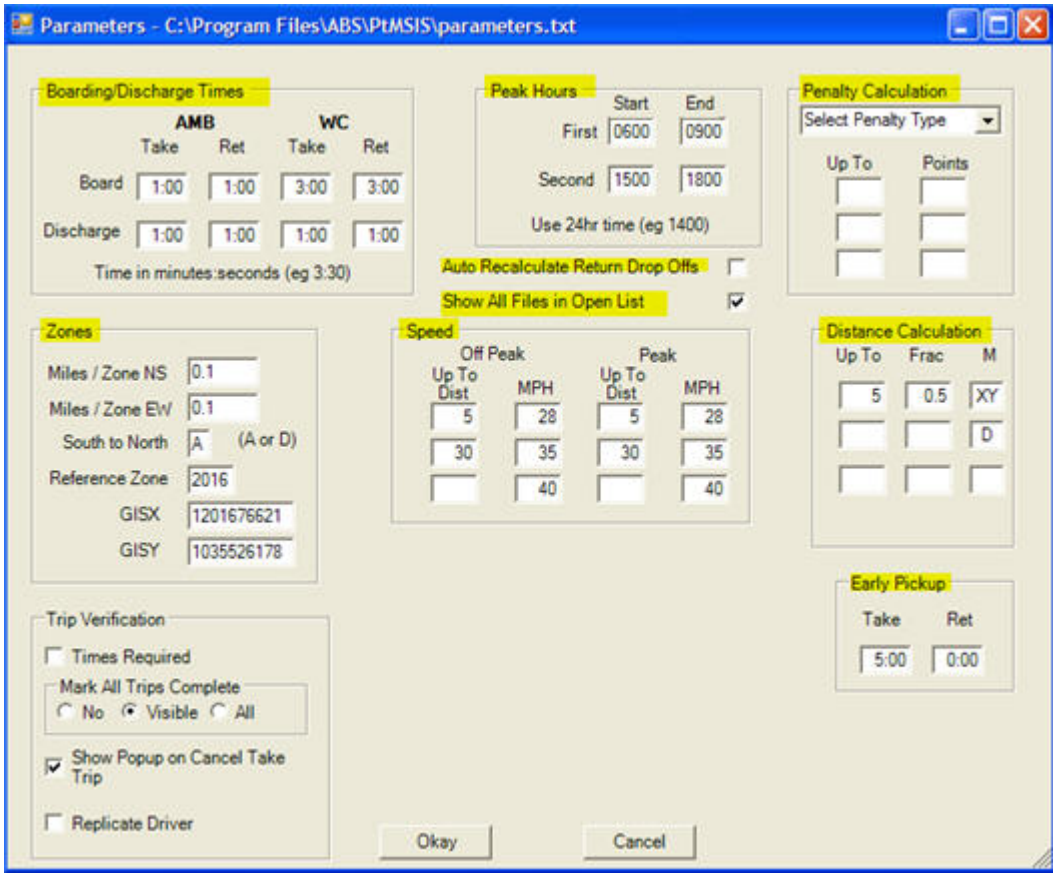
Setup and Configuration

Setup and Configuration operations prepare PtMS IS for live operation.

Scheduling Parameters and color codes for trip record conditions can be adjusted for schedule operation. Database setup tasks needed to support schedule operation can also be completed.

Parameters

From the View Menu, select Parameters to display the parameter settings:



Parameters allow users to customize the scheduling solutions provided by the Interactive Scheduler to insure they meet local needs.

Travel Time Parameters

- Boarding/Disharge Times
- Speeds
- Peak Hours
- Early Pickup

Distance Parameters

These parameters impact the estimated time of travel between stops in any schedule.

- Distance Calculation
- Zones

These parameters impact the estimated travel distance between stops in any schedule.

Any adjustments to these parameters is instantly reflected in all schedules in the Interactive Scheduler.

Penalty Calculation - How to define a "Good" vehicle schedule selection

The Penalty Calculation parameters are used to rank the best to worst vehicle selections by inserting the trip into each vehicle schedule, then evaluating how well the trip "fits" and how it impacts the other trips in the schedule.

A new trip "fits" well into an existing schedule if the trip is on-time for pickup and drop-off times, and it adds a minimum of travel time and distance to the vehicle's existing schedule.

A new trips "impact" on the existing schedule is measured by whether the existing trips on-time performance is compromised and whether the existing trips travel time is unreasonably extended.

The Penalty Calculation parameters measure the "fit" and "impact" characteristics of the trip on each schedule then combine them into a single Penalty Score. The lower the score the better the trip fits into that vehicle's schedule.

Here is a list of the Penalty Calculation parameters:

- Add Miles
- Pickup Before Shift
- Drop After Shift
- Pickup Late on Take
- Drop Late on Take
- Pickup Late on Return
- Drop Late on Return
- Over Capacity Ambulatory
- Over Capacity Wheel Chair
- Over Capacity Wheel Chair (if WC=0)
- Long Trip (Trip Exceeds established limit of minutes per trip)

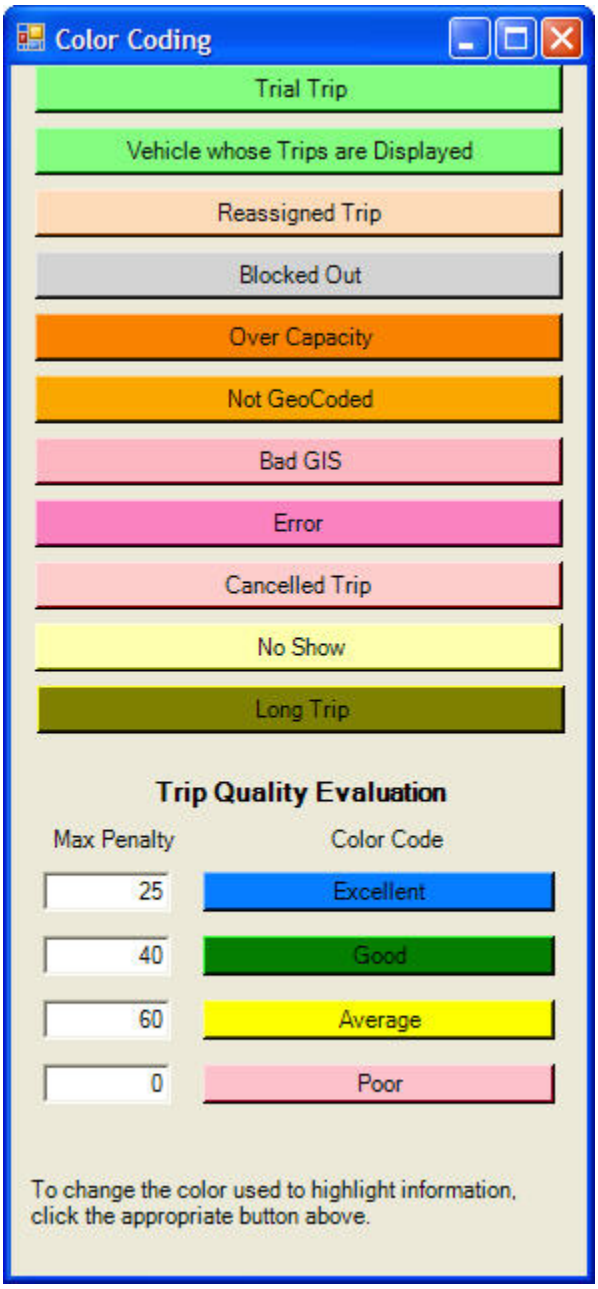
Penalty scores are grouped into categories - Excellent, Good, Average, and Poor. These 4 categories are Color Coded for easy recognition (see Color Codes).

For additional help on adjusting parameters refer to the on-line video at www.abs-pa.com/demos/online/ptmsis/ptmsis_parameters.html.

Color Codes

Color codes provide a mean for the scheduler to identify specific schedule characteristics or events rapidly and intuitively.

To adjust color codes or view the existing color code settings, select Help on the menu bar then select Color Codes to display the following screen:



You can adjust the color code assigned to a schedule characteristic or event by double clicking on it to display the color chart. Click on a color to select and change it.

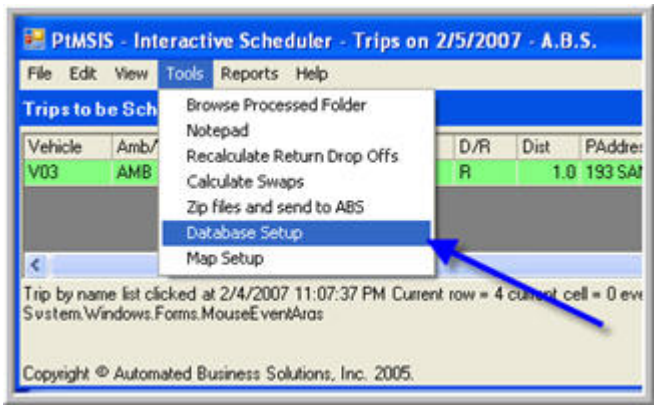
Color
Basic colors:
Custom colors:
Define Custom Colors >>
OK
Cancel

Database Setup

Once the SQL Express database is installed on the file server or workstation, the SQL database must be setup for the Interactive Scheduler. This setup step just connects the PtMSIS Interactive Scheduler to the PtMS for Windows SQL database

To setup the database for PtMS IS operations follow these steps:

1. Go to the Tools/Database Setup screen in PtMS IS:



2. Enter the username and password for the PtMS for Windows SQL Server Express. The username is "ptms" and the password is "abs". Enter both in lower case.

3. In the Step 2 selection box enter the name of your SQL Server Express server. This should be the computer name or server followed by a "\" then "ABS":

4. Next select the name of the database. Enter "PTMS" in the Step 3 selection box.

5. Select OK to complete the Database Setup and close the setup window.

Selecting the Schedule Date for Editing Schedules

Currently users must select a schedule day/date from PtMS and export or send the schedule to the PtMS IS Interactive Scheduler. This operation only takes 10-30 seconds to complete. When scheduling tasks are completed in PtMS IS, the PtMS schedule database must be updated with the schedule results. This operation only takes a few seconds to complete.

Both of these tasks are accomplished using the PtMS IS Data Exchange. A soon to be released SQL version of PtMS will no longer require this step since the entire database will be in SQL in this version and transport of schedule results between the 2 datbases will no longer be necessary.

Loading a Schedule Date

A Schedule date must first be loaded into the Interactive Scheduler before the user can edit the schedule. Click on the down arrow in the Select Schedule Date box to display the calendar. Select the schedule date then click on the button "Load Schedule Date" to display the schedule data in the Interactive Scheduler.

Updating a Schedule Date

All changes to vehicle schedules are saved automatically on the Interactive Scheduler screen. If the user closes the Interactive Scheduler and re-opens it, or opens another schedule date and returns to a schedule in progress, the changes will be saved and displayed on the screen.

However, schedule changes made in the Interactive Scheduler must be sent to the PtMS SQL data base so the PtMS data base schedule reflects all the changes made in the Interactive Scheduler. This update should be peformed periodically throughout the day if you are working with the scheduler regularly or when you have completed a schedule session with a specific schedule date.

Updating PtMS SQL database with the Interactive Scheduler results does not require the user to close the Interactive Scheduler, simply select the button "Update Schedule" in the top right corner of the Trips to Be Schedule window and the update is complete.

We recommend you reload the schedule date using the "Load Schedule" button after performing an update. This will insure that any new trip requests that have been added since the schedule date was last loaded are displayed on the screen.

Scheduling Basics

Included in this section:

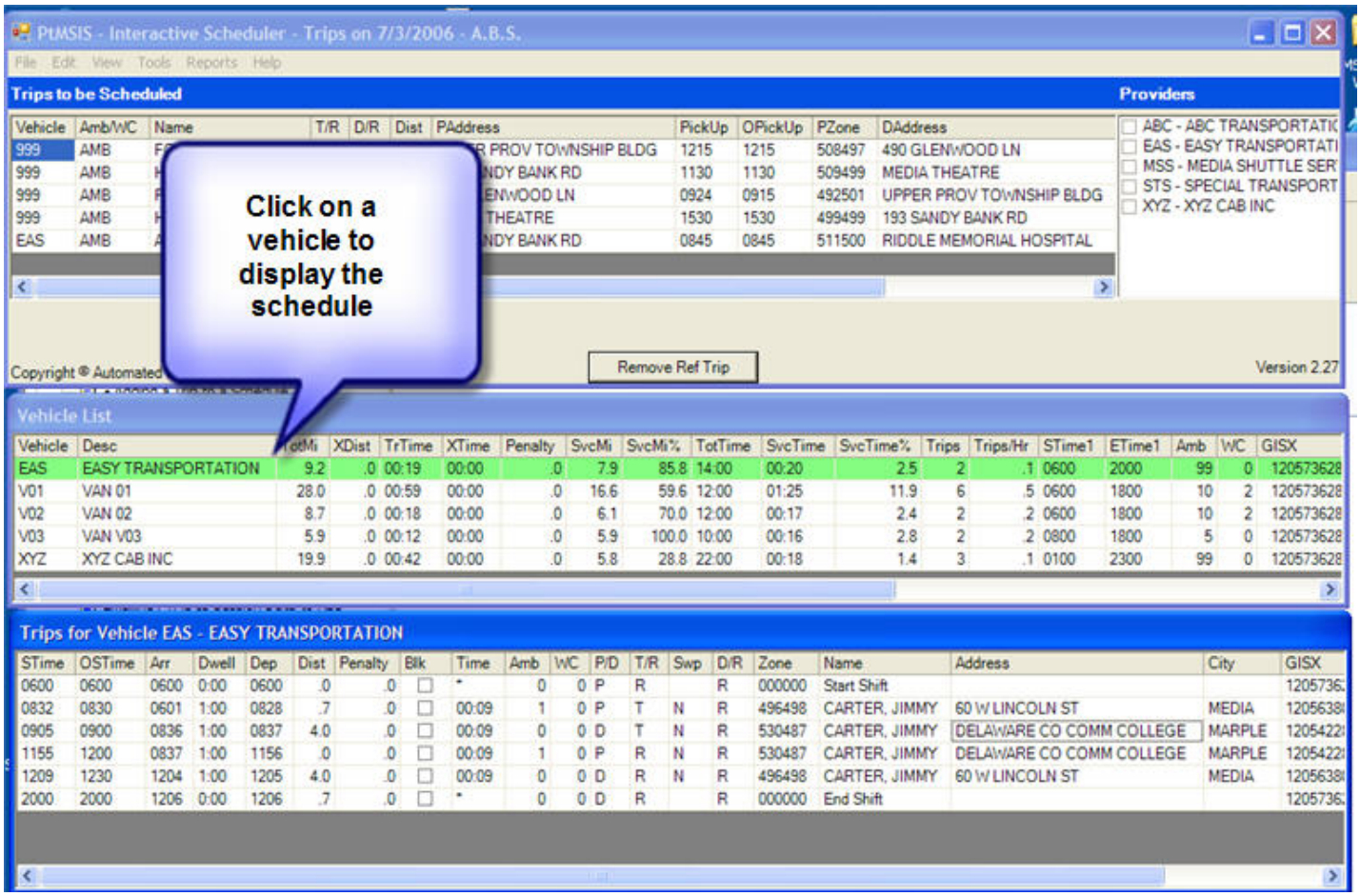
- **How to edit a vehicle's schedule times**
- **How to remove a trip from an existing schedule for rescheduling**
- **How to add a trip to a vehicle's schedule**

The last item involves the mechanics of selecting a vehicle option for an unscheduled trip and adding it to the vehicles schedule.

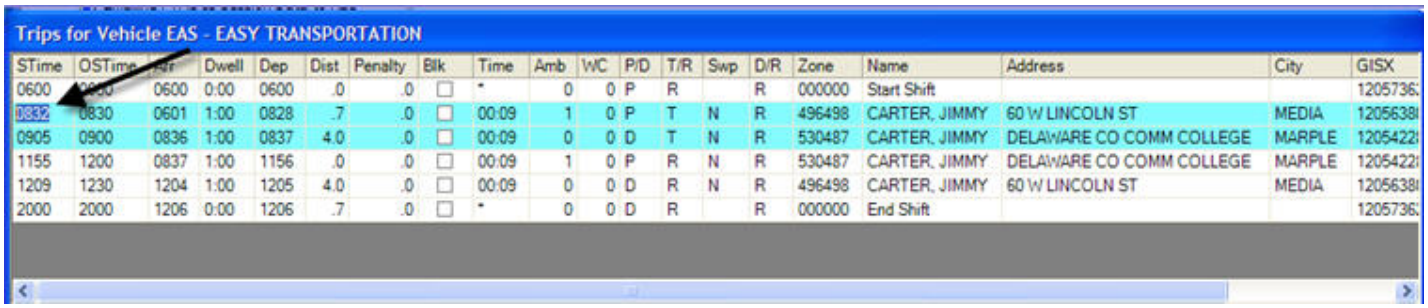
For a more detailed explanation of how to evaluate vehicle rankings (excellent, good, average, poor) refer to the web tutorial Selecting the Best Vehicle and Adding an Unscheduled Trip to a Vehicle's Schedule

Editing Schedule Times

Click on a Vehicle in the Vehicle List window to display the schedule for the Vehicle.



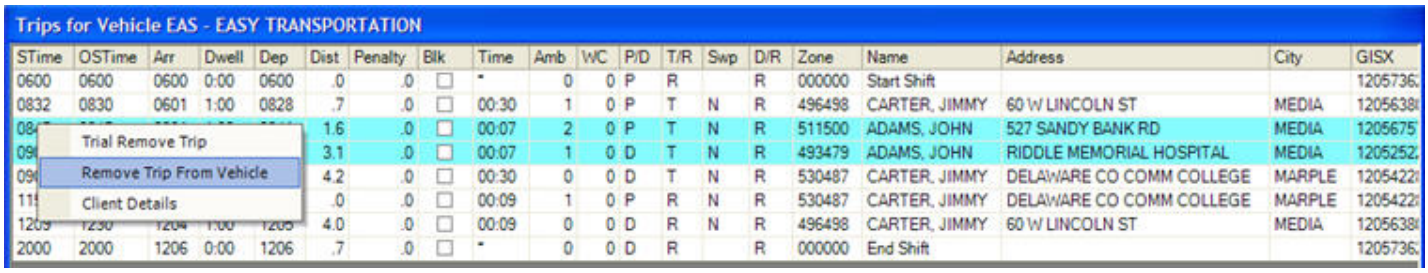
Click in any Scheduled Times field value (STime column) to edit the time. The OSTime column is the Original Scheduled (aka Default Time or Appointment Time) and is available as a reference. Once the time is edited click outside the field to save the time change.



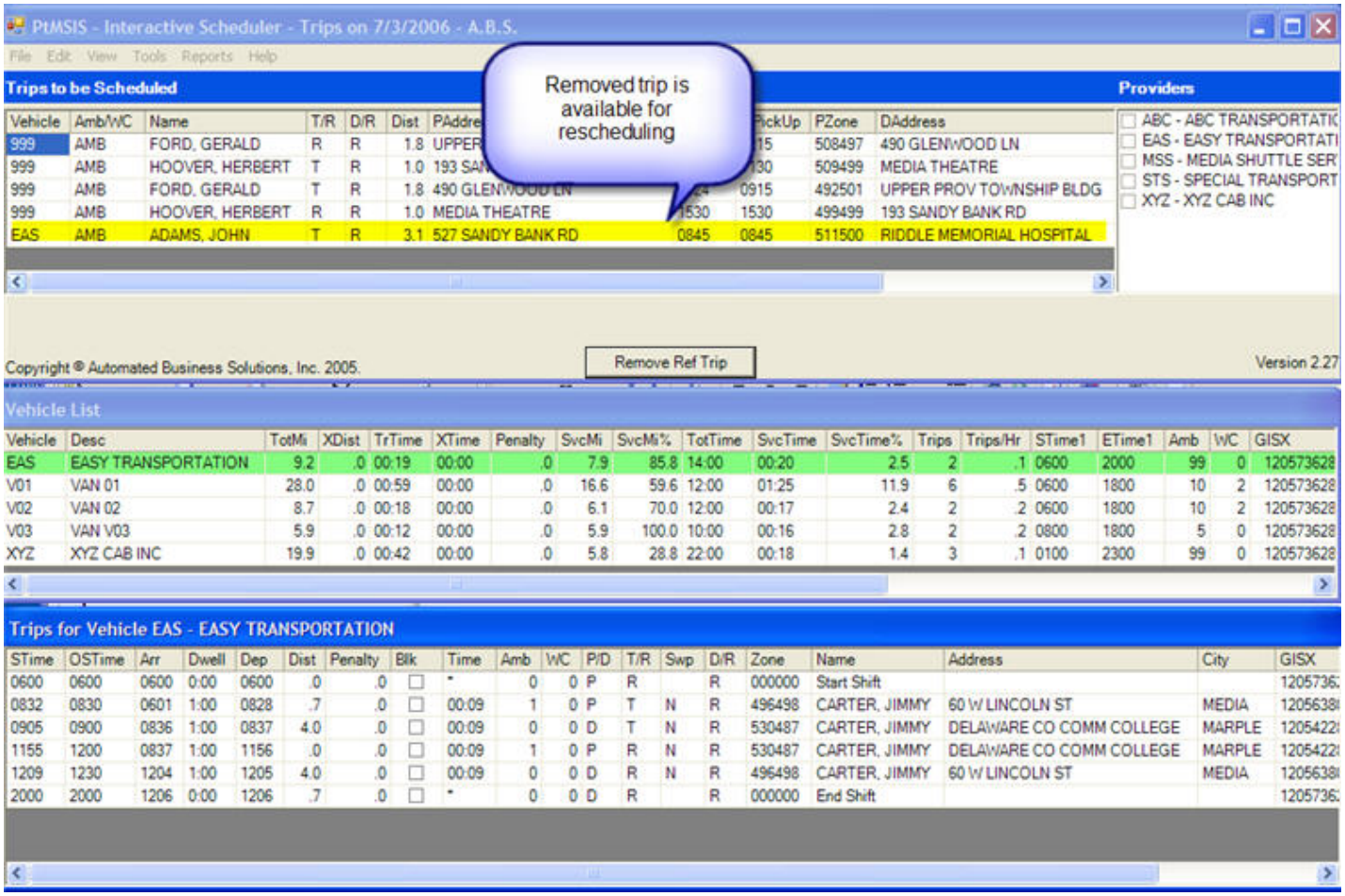
Removing a Trip from a Schedule

To remove a trip from a vehicle's schedule:

Highlight the trip by right clicking on the trip in the "Trips for Vehicle" window.

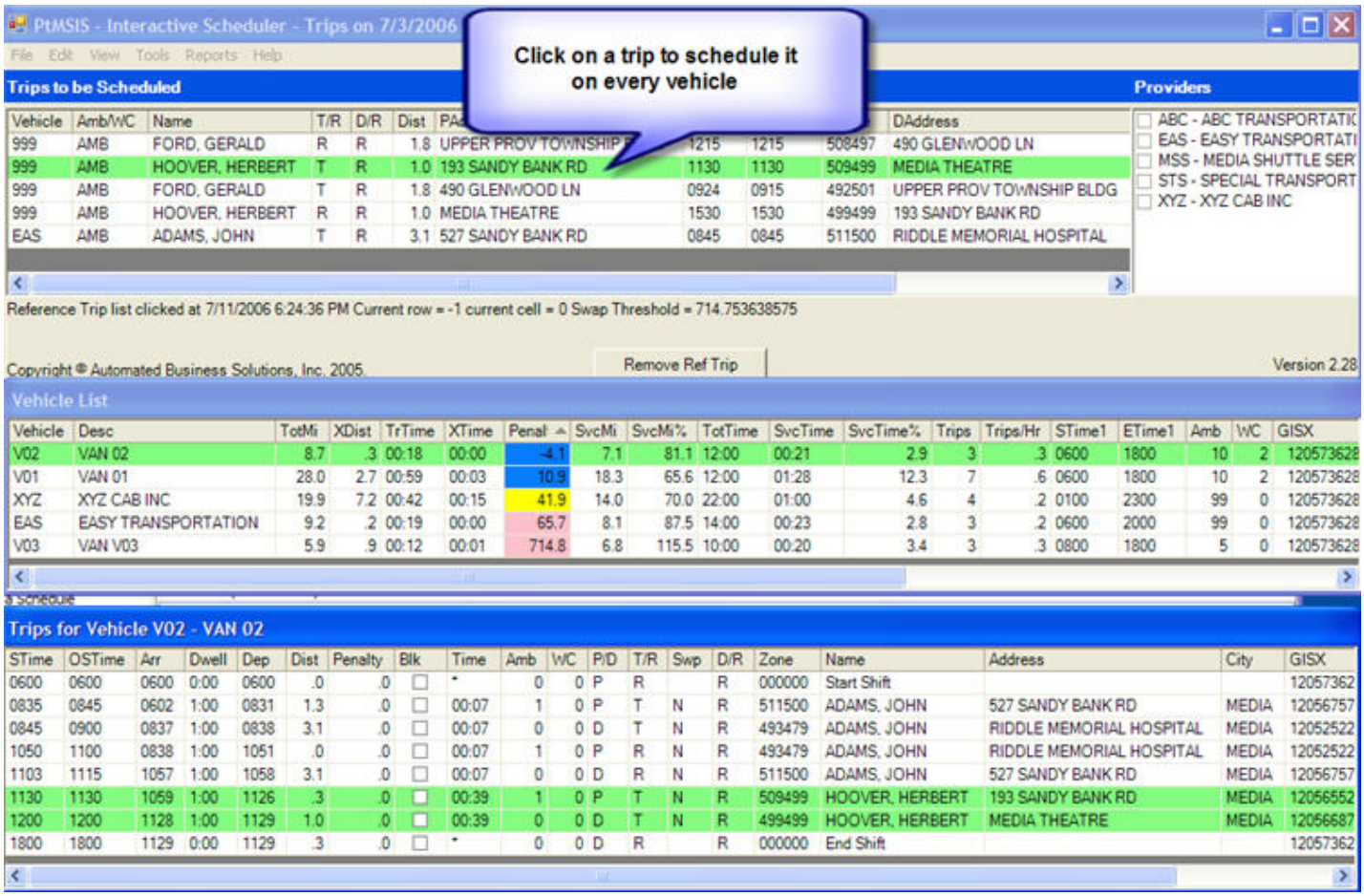


Left click on the "Remove Trip from Vehicle" option and the trip will be removed from the schedule and displayed in the "Trips to be Scheduled" window where it can now be rescheduled.



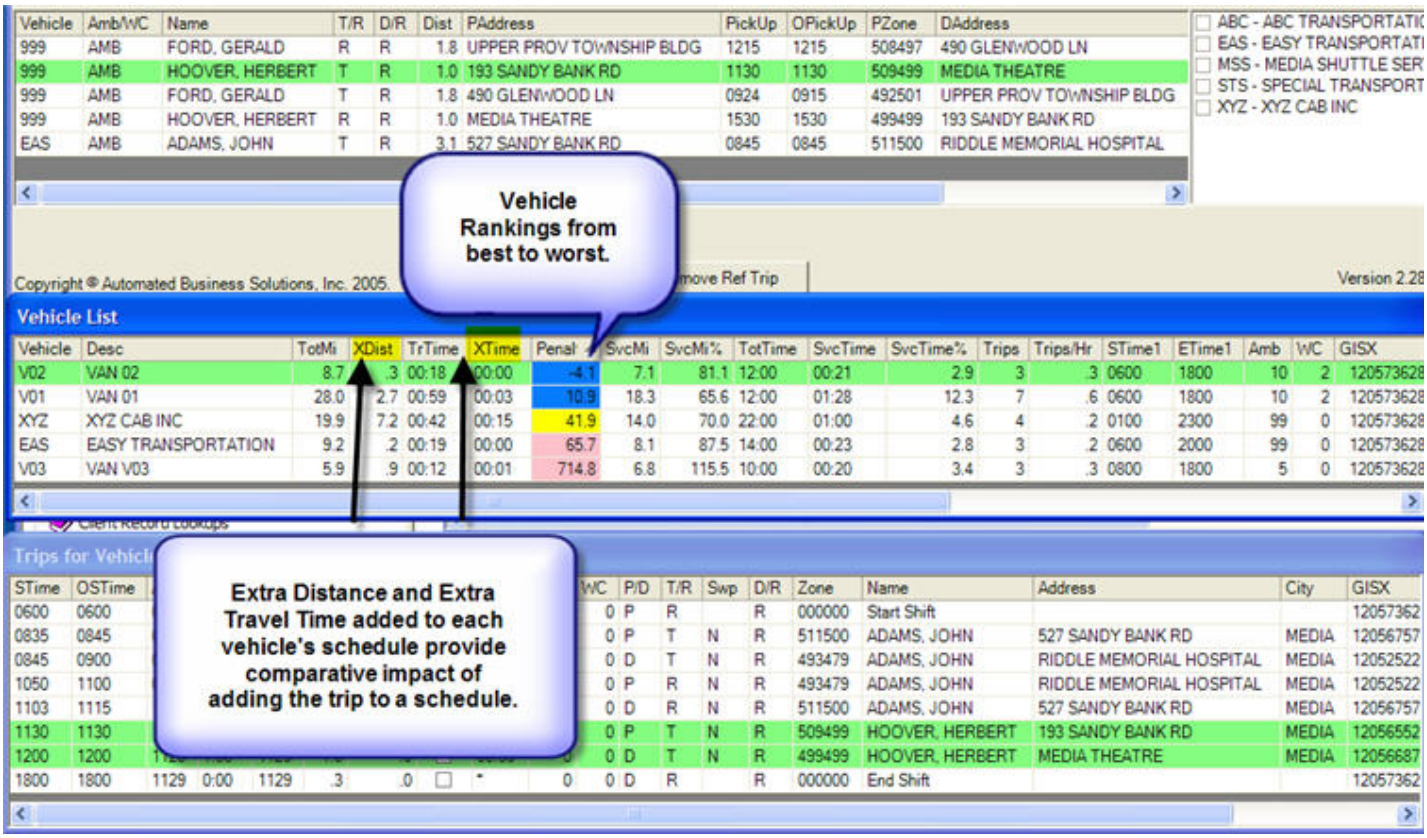
Adding a Trip to a Schedule

Step 1. Click on an unscheduled trip in the "Trips to Be Scheduled" Window.

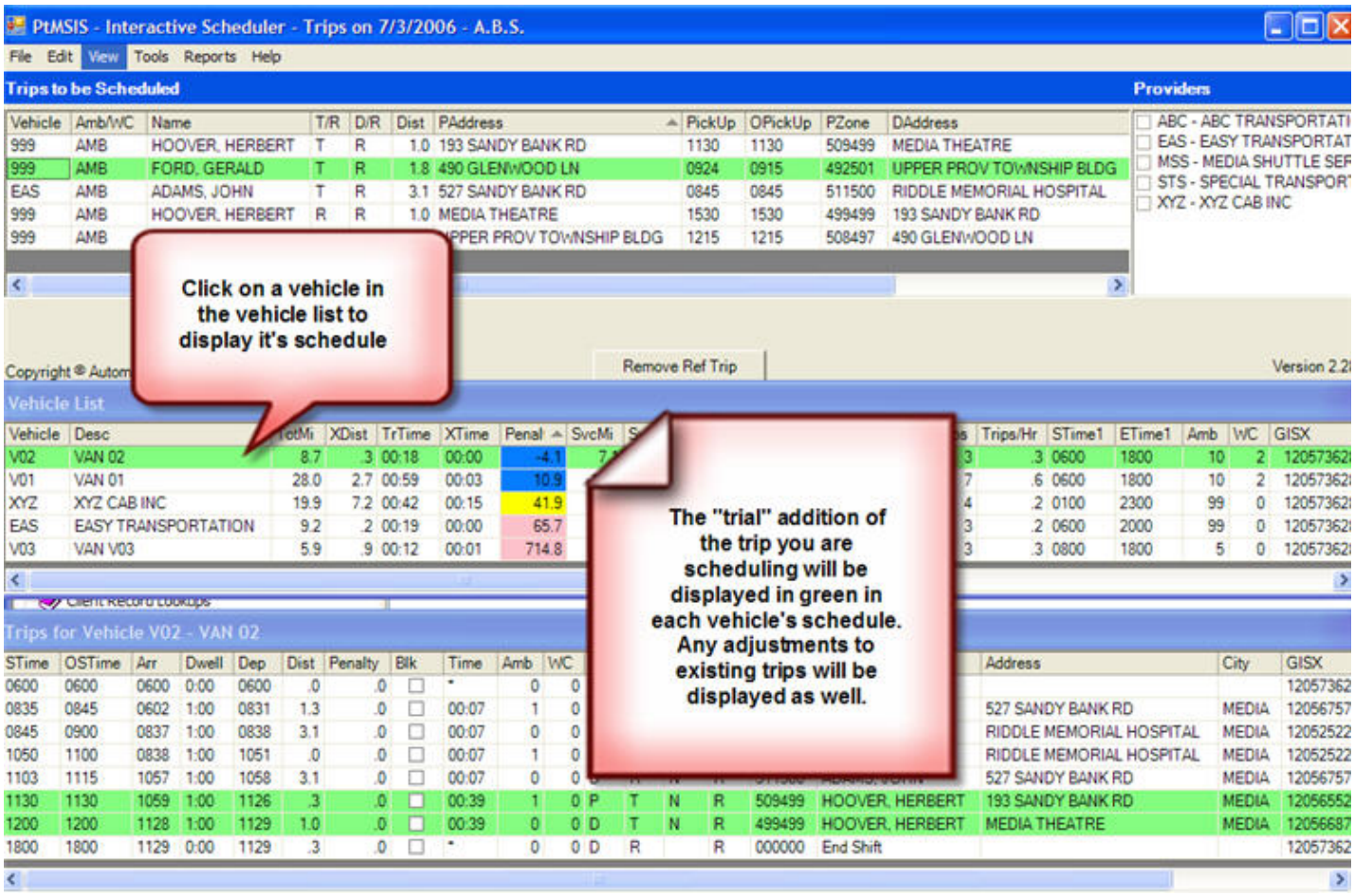


Step 2. Review how PtMS IS has scheduled the trip and ranked the best to worst vehicle options.

Color Codes provide schedulers with a means for instantly identifying the best vehicle options.



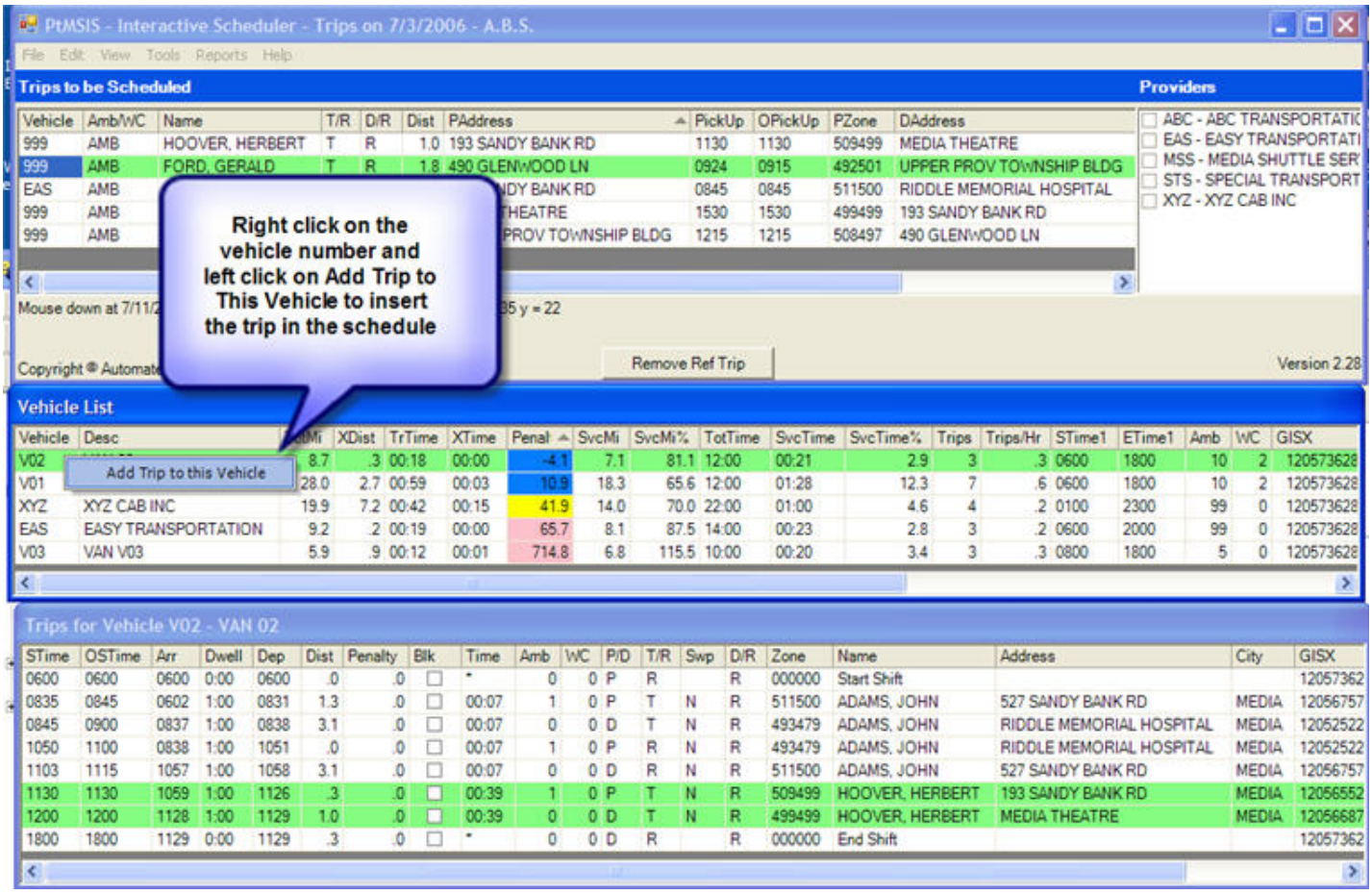
Step 3. Inspect the trip inserted in a vehicle's schedule by clicking on the vehicle in the Vehicle List and review the "trial" addition of the trip in each vehicle's schedule.



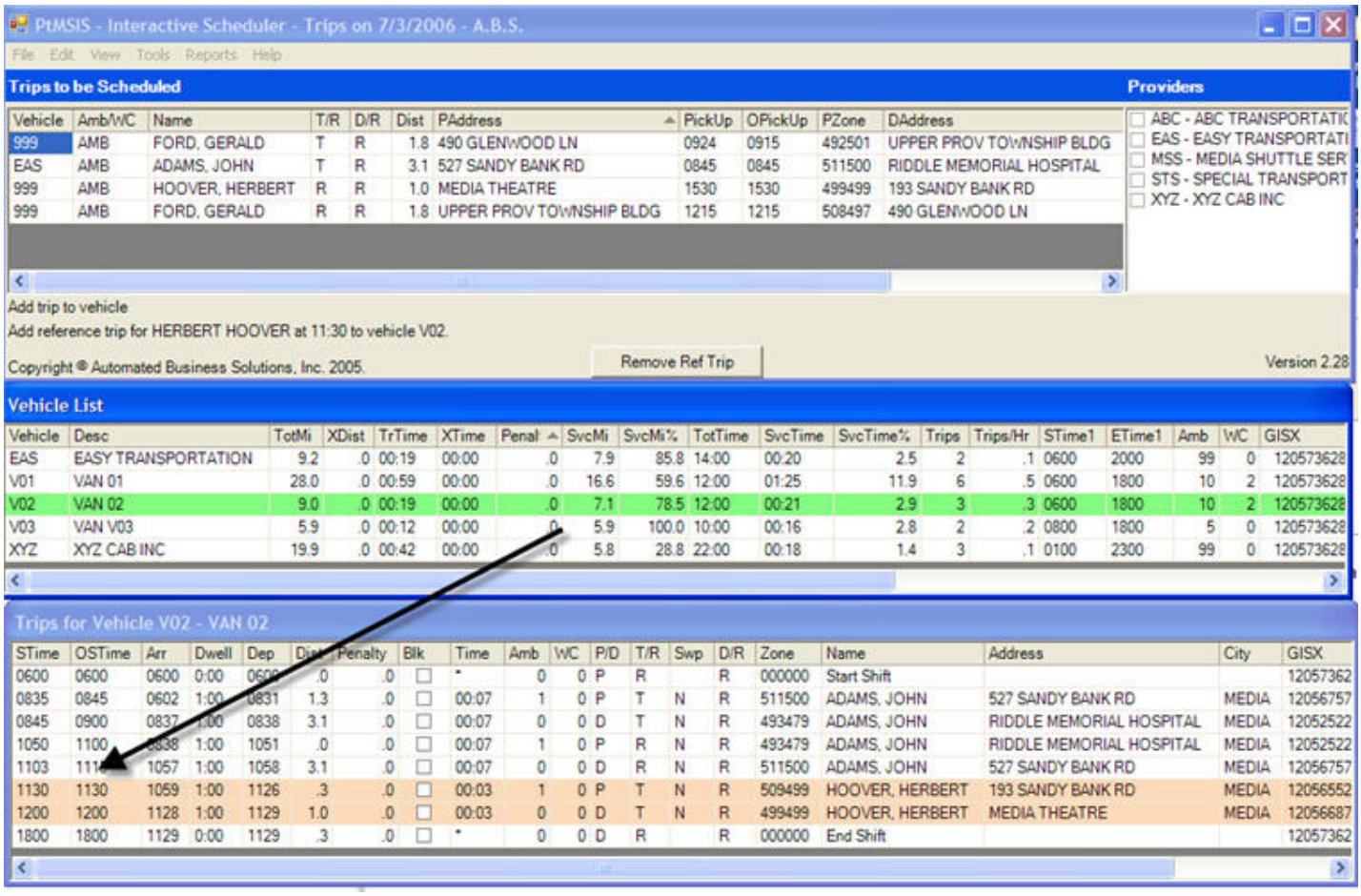
Step 4. Adjust Pickup and Drop-Times if needed and return to Step 2

Pickup Times can be adjusted by using the Editing Schedule Times feature.

Step 5. Select your vehicle choice and add the trip to the vehicle's schedule



Inserted Trips will appear in color throughout the scheduling session.

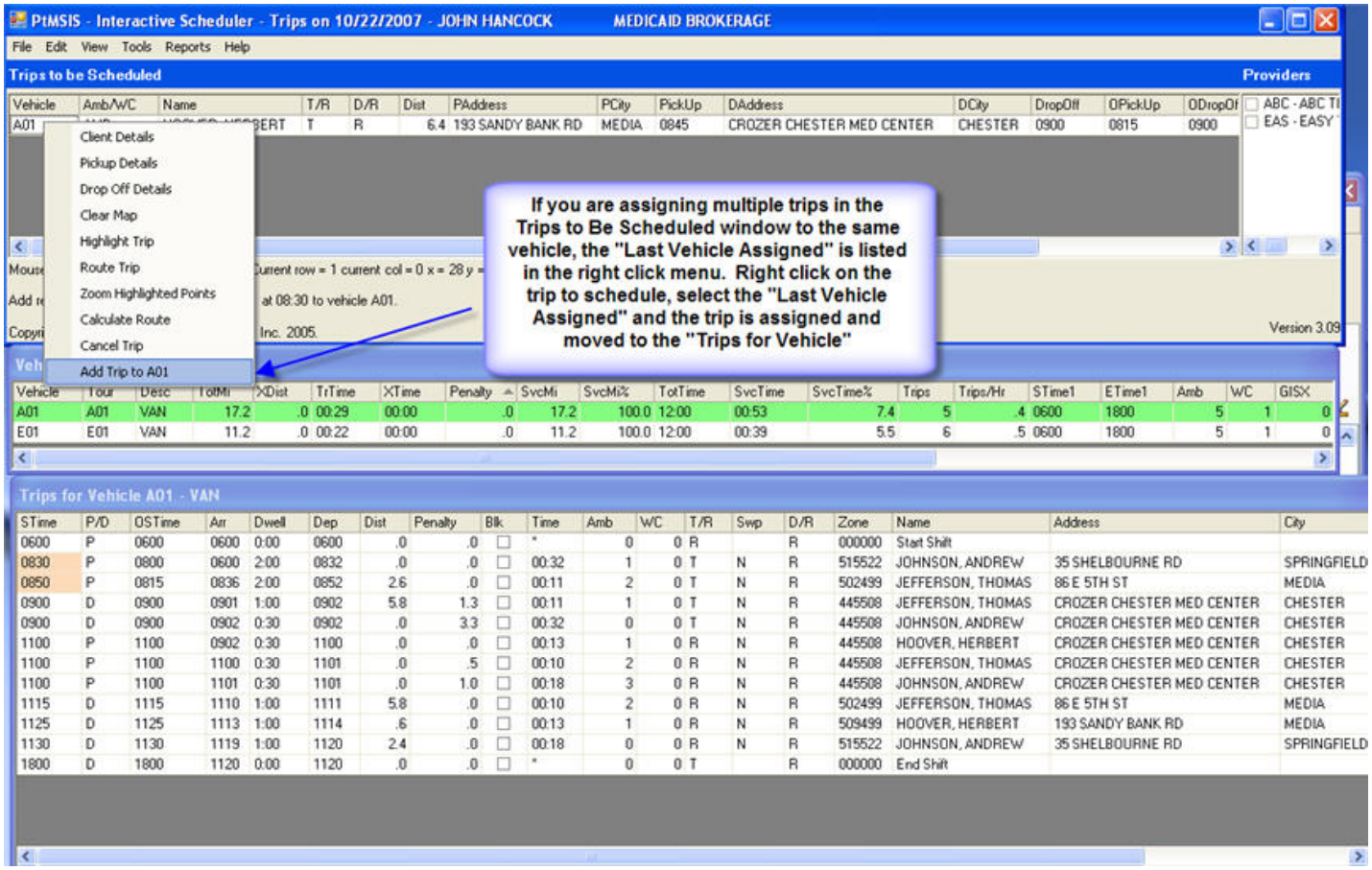


Vehicle	Amb/WC	Name	T/R	D/R	Dist	PAddress	PickUp	OPickUp	PZone	DAddress
999	AMB	FORD, GERALD	T	R	1.8	490 GLENWOOD LN	0924	0915	492501	UPPER PROV TOWNSHIP BLDG
EAS	AMB	ADAMS, JOHN	T	R	3.1	527 SANDY BANK RD	0845	0845	511500	RIDDLE MEMORIAL HOSPITAL
999	AMB	HOOVER, HERBERT	R	R	1.0	MEDIA THEATRE	1530	1530	499499	193 SANDY BANK RD
999	AMB	FORD, GERALD	R	R	1.8	UPPER PROV TOWNSHIP BLDG	1215	1215	508497	490 GLENWOOD LN

Vehicle	Desc	TotMi	XDist	TrTime	XTime	Penal	SvcMi	SvcMi%	TotTime	SvcTime	SvcTime%	Trips	Trips/Hr	STime1	ETime1	Amb	WC	GISX
EAS	EASY TRANSPORTATION	9.2	.0	00:19	00:00	.0	7.9	85.8	14:00	00:20	2.5	2	.1	0600	2000	99	0	120573628
V01	VAN 01	28.0	.0	00:59	00:00	.0	16.6	59.6	12:00	01:25	11.9	6	.5	0600	1800	10	2	120573628
V02	VAN 02	9.0	.0	00:19	00:00	.0	7.1	78.5	12:00	00:21	2.9	3	.3	0600	1800	10	2	120573628
V03	VAN V03	5.9	.0	00:12	00:00	.0	5.9	100.0	10:00	00:16	2.8	2	.2	0800	1800	5	0	120573628
XYZ	XYZ CAB INC	19.9	.0	00:42	00:00	.0	5.8	28.8	22:00	00:18	1.4	3	.1	0100	2300	99	0	120573628

STime	OSTime	Arr	Dwell	Dep	Dist	Penalty	Blk	Time	Amb	WC	P/D	T/R	Swp	D/R	Zone	Name	Address	City	GISX
0600	0600	0600	0:00	0600	.0	.0	☐	*	0	0	P	R		R	000000	Start Shift			12057362
0835	0845	0602	1:00	0831	1.3	.0	☐	00:07	1	0	P	T	N	R	511500	ADAMS, JOHN	527 SANDY BANK RD	MEDIA	12056757
0845	0900	0837	1:00	0838	3.1	.0	☐	00:07	0	0	D	T	N	R	493479	ADAMS, JOHN	RIDDLE MEMORIAL HOSPITAL	MEDIA	12052522
1050	1100	0838	1:00	1051	.0	.0	☐	00:07	1	0	P	R	N	R	493479	ADAMS, JOHN	RIDDLE MEMORIAL HOSPITAL	MEDIA	12052522
1103	111[illegible]	1057	1:00	1058	3.1	.0	☐	00:07	0	0	D	R	N	R	511500	ADAMS, JOHN	527 SANDY BANK RD	MEDIA	12056757
1130	1130	1059	1:00	1126	.3	.0	☐	00:03	1	0	P	T	N	R	509499	HOOVER, HERBERT	193 SANDY BANK RD	MEDIA	12056552
1200	1200	1128	1:00	1129	1.0	.0	☐	00:03	0	0	D	T	N	R	499499	HOOVER, HERBERT	MEDIA THEATRE	MEDIA	12056687
1800	1800	1129	0:00	1129	.3	.0	☐	*	0	0	D	R		R	000000	End Shift			12057362

Last Vehicle

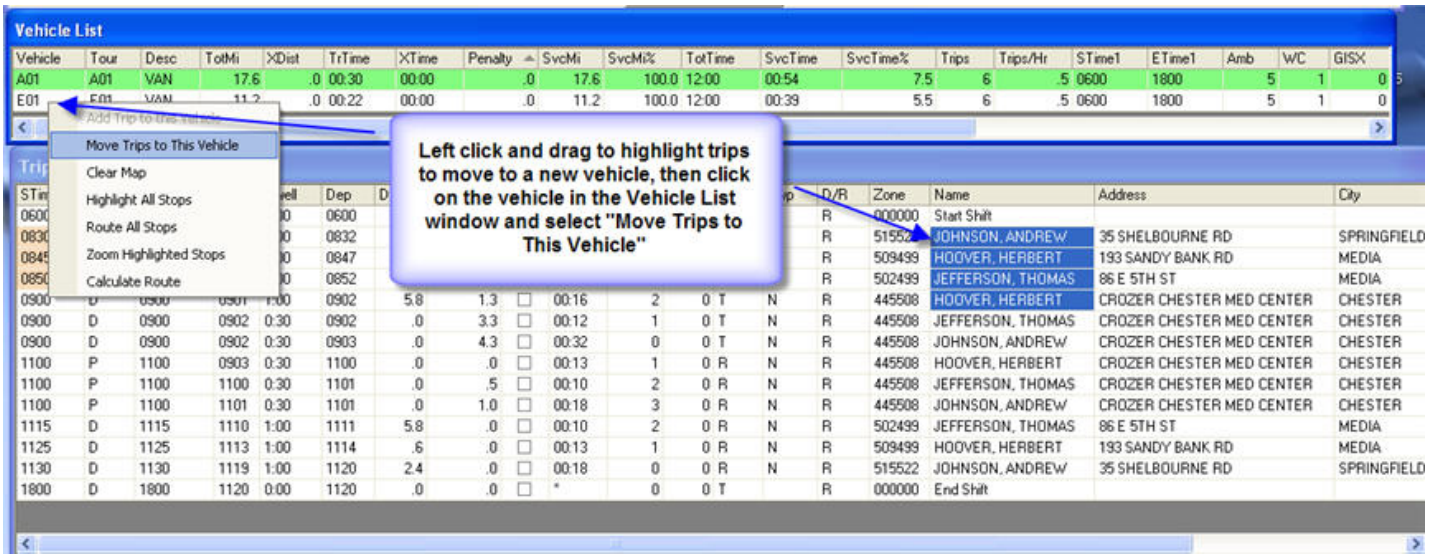


Moving Trips from Vehicle To Vehicle

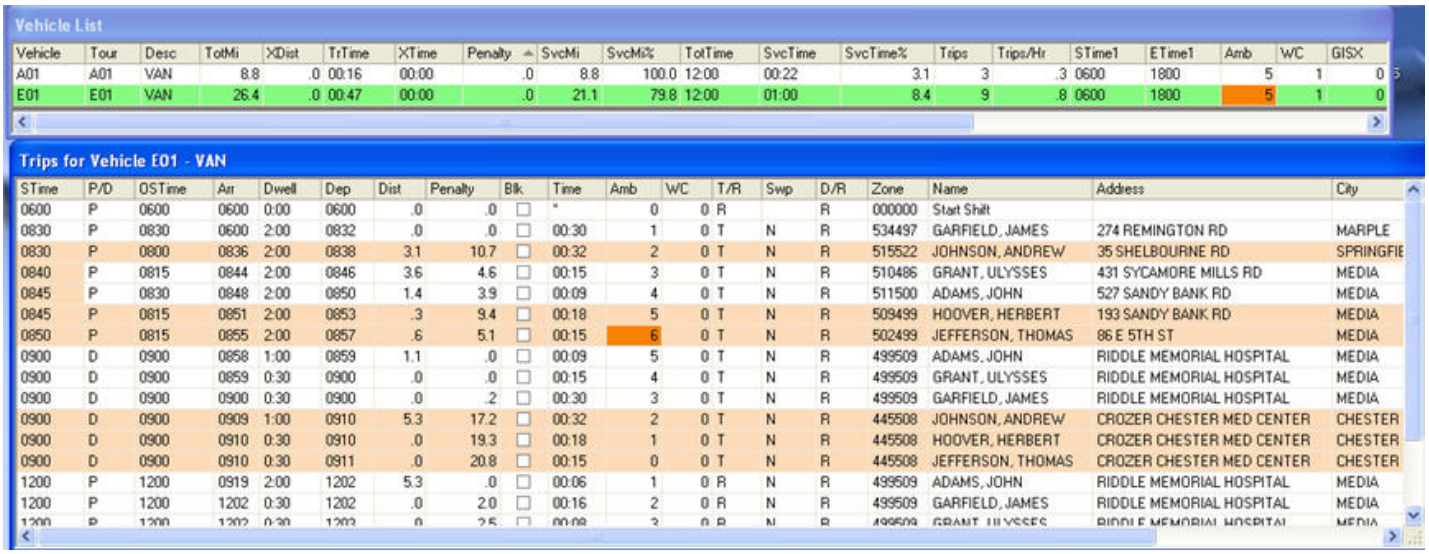
One or more trips can be moved directly from one vehicle to a second vehicle. You can only move contigous trips in a schedule, that is, trips that follow one after another. If there are multiple sets of contiguous trips to move, the moves will have to performed several times moving each contiguous set of trips with each move.

To Move a set of contiguous trips from one vehicle to another vehicle:

1. Display the trips to move in the Trips for Vehicle window.
2. Left click and drag your mouse down to highlight the trips to move.
3. Right click on the vehicle in the Vehicle List and select "Move Trips to This Vehicle" to complete the move.



The moved trips will be highlighted and displayed on the new vehicle in the Trips for Vehicle window.

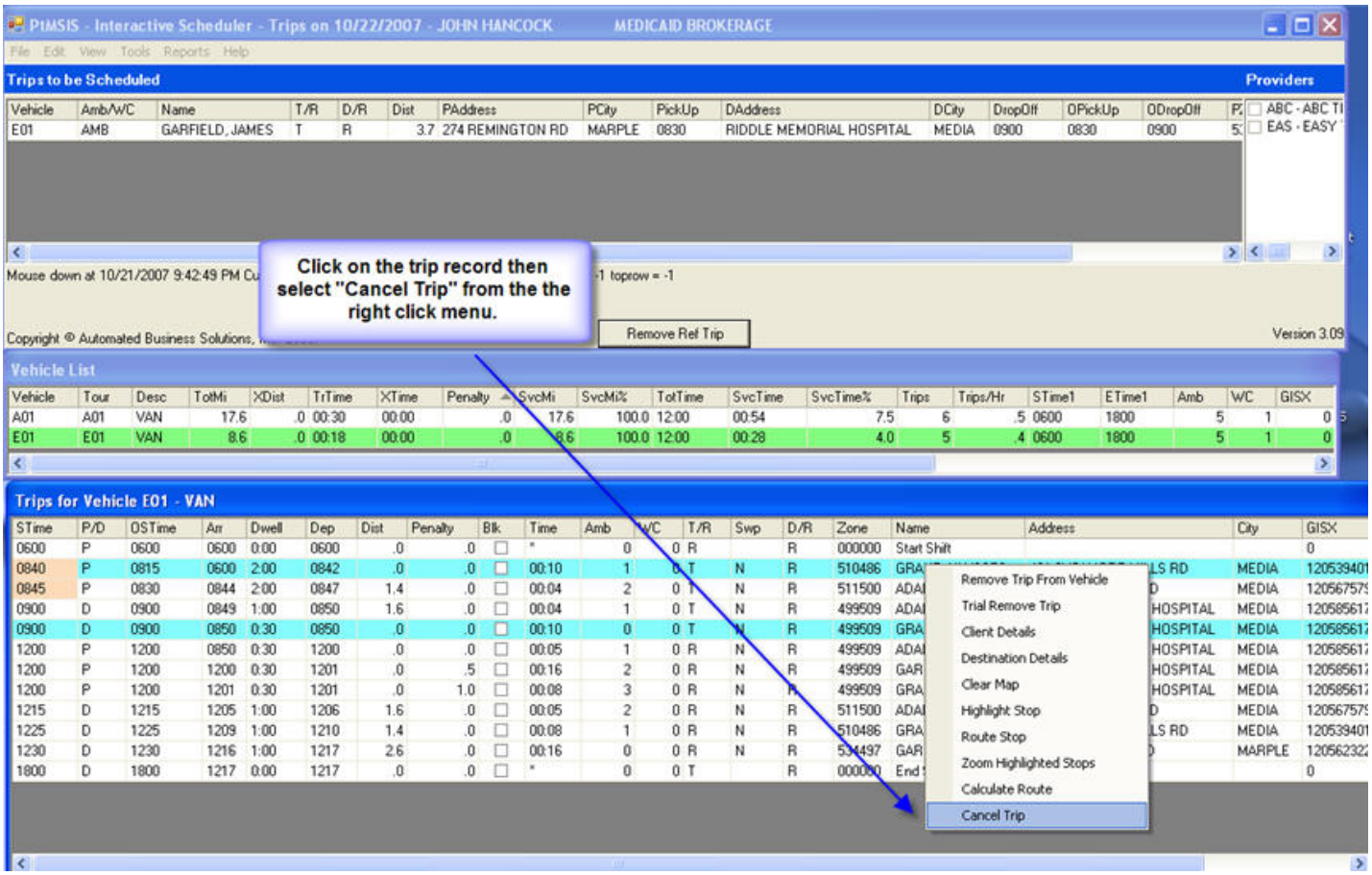


Cancelling Trips

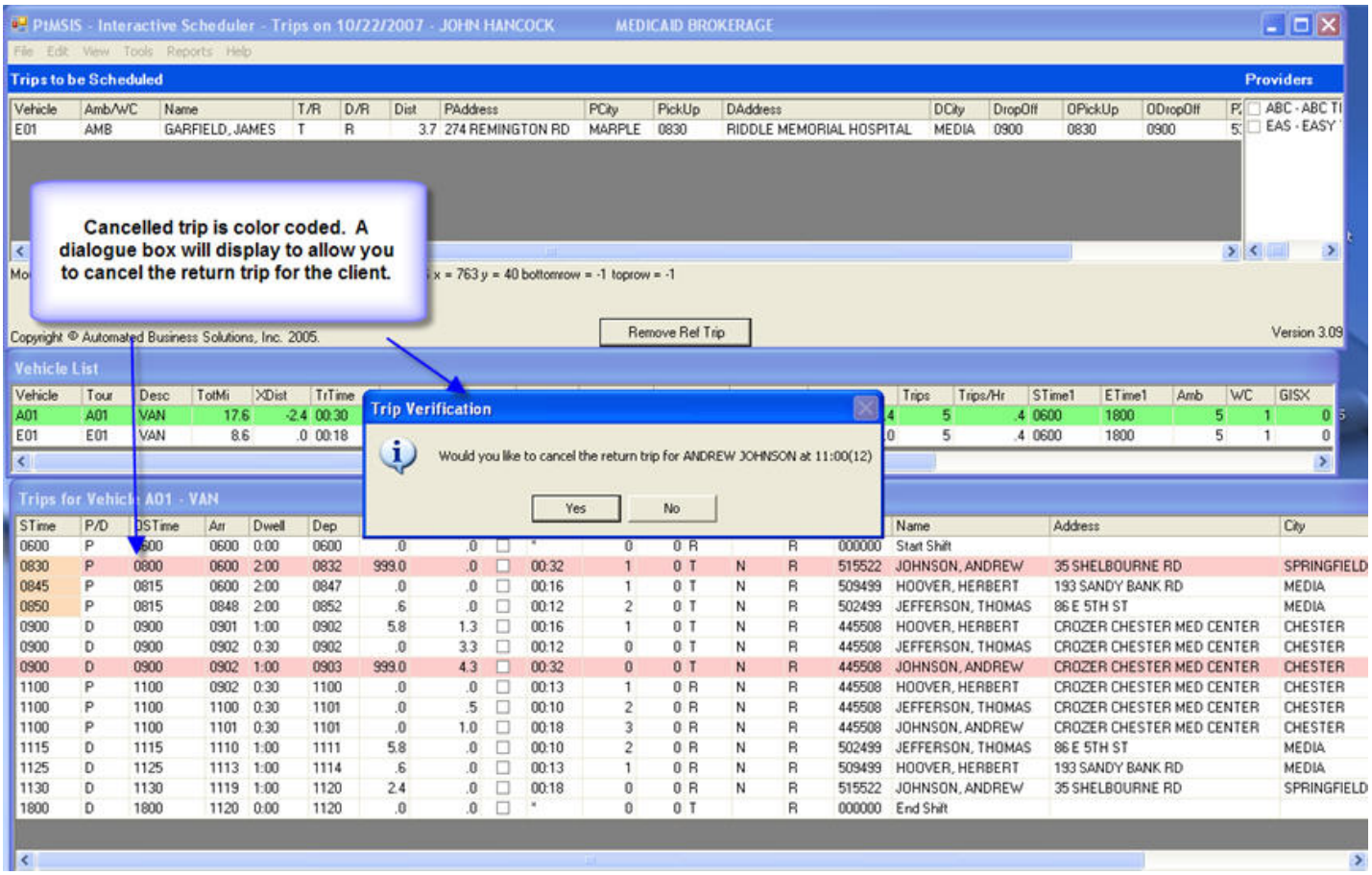
Trips may be cancelled from the Trips for Vehicle window.

To Cancel a Trip:

1. Right click on the trip
2. Select "Cancel Trip" from the right click menu.



The trip will be color coded to identify it as cancelled. If there is a return trip for this client a dialogue box will display and provide an opportunity to cancel the return trip.



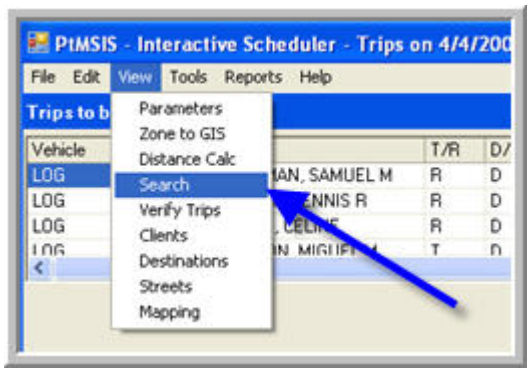
Cancelled trips are removed from the scheduling process and are not included schedule calculations of distance and time for a vehicle.

To UnCancel a Trip.

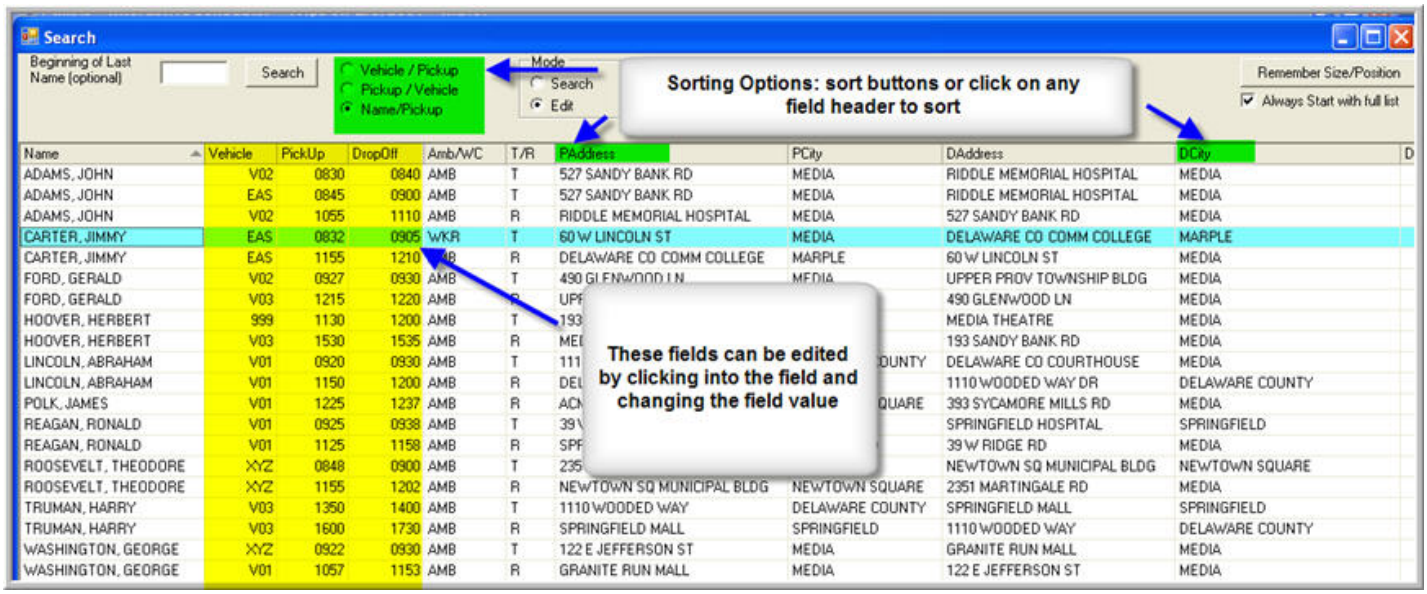
1. Right click on the trip
2. Select "Uncancel Trip" from the right click menu.

Search-Edit Screen - Browsing All Trip Records

The Search-Edit screen is accessed from the View menu.



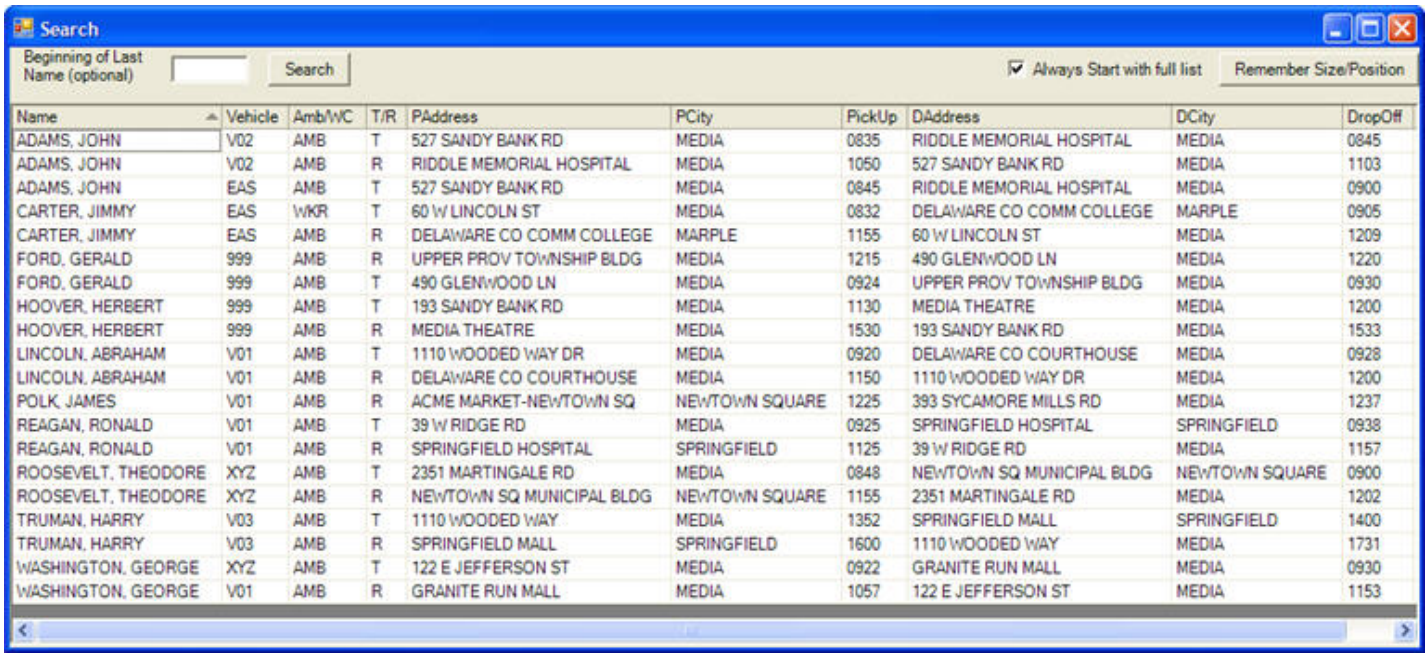
This screen provides a means for browsing the entire schedule day. Records can be instantly sorted using the 3 sort buttons at the top, or sorted by click on the field headers. Pickup Time, drop-off time, and scheduled vehicle can be edited directly on this screen.



Searching for a Trip Record

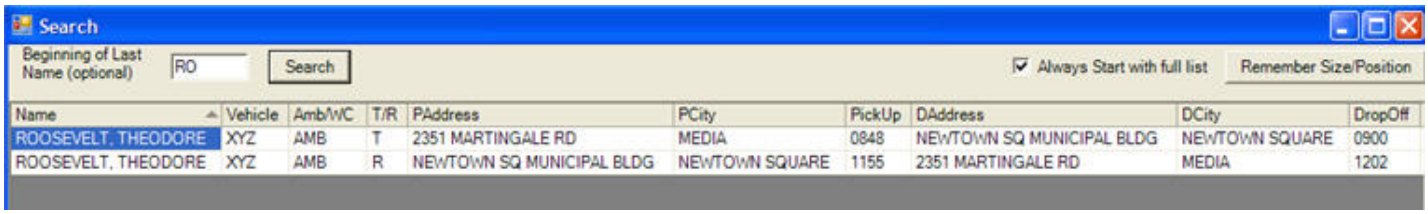
A Search screen is available for rapidly locating a client trip records. This screen can also be used for rapidly locating all trips arriving at a specific location, etc, by resorting all trip records by clicking on one of the field headers.

From the Interactive Scheduler menu bar select View, then Search:



Name	Vehicle	Amb/WC	T/R	PAddress	PCity	PickUp	DAddress	DCity	DropOff
ADAMS, JOHN	V02	AMB	T	527 SANDY BANK RD	MEDIA	0835	RIDDLE MEMORIAL HOSPITAL	MEDIA	0845
ADAMS, JOHN	V02	AMB	R	RIDDLE MEMORIAL HOSPITAL	MEDIA	1050	527 SANDY BANK RD	MEDIA	1103
ADAMS, JOHN	EAS	AMB	T	527 SANDY BANK RD	MEDIA	0845	RIDDLE MEMORIAL HOSPITAL	MEDIA	0900
CARTER, JIMMY	EAS	WKR	T	60 W LINCOLN ST	MEDIA	0832	DELAWARE CO COMM COLLEGE	MARPLE	0905
CARTER, JIMMY	EAS	AMB	R	DELAWARE CO COMM COLLEGE	MARPLE	1155	60 W LINCOLN ST	MEDIA	1209
FORD, GERALD	999	AMB	R	UPPER PROV TOWNSHIP BLDG	MEDIA	1215	490 GLENWOOD LN	MEDIA	1220
FORD, GERALD	999	AMB	T	490 GLENWOOD LN	MEDIA	0924	UPPER PROV TOWNSHIP BLDG	MEDIA	0930
HOOVER, HERBERT	999	AMB	T	193 SANDY BANK RD	MEDIA	1130	MEDIA THEATRE	MEDIA	1200
HOOVER, HERBERT	999	AMB	R	MEDIA THEATRE	MEDIA	1530	193 SANDY BANK RD	MEDIA	1533
LINCOLN, ABRAHAM	V01	AMB	T	1110 WOODED WAY DR	MEDIA	0920	DELAWARE CO COURTHOUSE	MEDIA	0928
LINCOLN, ABRAHAM	V01	AMB	R	DELAWARE CO COURTHOUSE	MEDIA	1150	1110 WOODED WAY DR	MEDIA	1200
POLK, JAMES	V01	AMB	R	ACME MARKET-NEWTOWN SQ	NEWTOWN SQUARE	1225	393 SYCAMORE MILLS RD	MEDIA	1237
REAGAN, RONALD	V01	AMB	T	39 W RIDGE RD	MEDIA	0925	SPRINGFIELD HOSPITAL	SPRINGFIELD	0938
REAGAN, RONALD	V01	AMB	R	SPRINGFIELD HOSPITAL	SPRINGFIELD	1125	39 W RIDGE RD	MEDIA	1157
ROOSEVELT, THEODORE	XYZ	AMB	T	2351 MARTINGALE RD	MEDIA	0848	NEWTOWN SQ MUNICIPAL BLDG	NEWTOWN SQUARE	0900
ROOSEVELT, THEODORE	XYZ	AMB	R	NEWTOWN SQ MUNICIPAL BLDG	NEWTOWN SQUARE	1155	2351 MARTINGALE RD	MEDIA	1202
TRUMAN, HARRY	V03	AMB	T	1110 WOODED WAY	MEDIA	1352	SPRINGFIELD MALL	SPRINGFIELD	1400
TRUMAN, HARRY	V03	AMB	R	SPRINGFIELD MALL	SPRINGFIELD	1600	1110 WOODED WAY	MEDIA	1731
WASHINGTON, GEORGE	XYZ	AMB	T	122 E JEFFERSON ST	MEDIA	0922	GRANITE RUN MALL	MEDIA	0930
WASHINGTON, GEORGE	V01	AMB	R	GRANITE RUN MALL	MEDIA	1057	122 E JEFFERSON ST	MEDIA	1153

Enter part of the name in the Search field box, then click on Search to display the trip records that match.



Name	Vehicle	Amb/WC	T/R	PAddress	PCity	PickUp	DAddress	DCity	DropOff
ROOSEVELT, THEODORE	XYZ	AMB	T	2351 MARTINGALE RD	MEDIA	0848	NEWTOWN SQ MUNICIPAL BLDG	NEWTOWN SQUARE	0900
ROOSEVELT, THEODORE	XYZ	AMB	R	NEWTOWN SQ MUNICIPAL BLDG	NEWTOWN SQUARE	1155	2351 MARTINGALE RD	MEDIA	1202

Click on any trip record and this will display the trip record in the "Trips for Vehicle" window.

PtMSIS - Interactive Scheduler - Trips on 7/3/2006 - A.B.S.

File Edit View Tools Reports Help

Trips to be Scheduled

Vehicle	Amb/WC	Name	T/R	D/R	Dist	PAddress	PickUp	OPickUp	PZone	DAddress
999	AMB	FORD, GERALD	R	R	1.8	UPPER PROV TOWNSHIP BLDG	1215	1215	508497	490 GLENWOOD LN
999	AMB	HOOVER, HERBERT	T	R	1.0	193 SANDY BANK RD	1130	1130	509499	MEDIA THEATRE
999	AMB	FORD, GERALD	T	R	1.8	490 GLENWOOD LN	0924	0915	492501	UPPER PROV TOWNSHIP BLDG
999	AMB	HOOVER, HERBERT	R	R	1.0	MEDIA THEATRE	1530	1530	499499	193 SANDY BANK RD

Providers

- ABC - ABC TRANSPORTATIC
- EAS - EASY TRANSPORTATI
- MSS - MEDIA SHUTTLE SER
- STS - SPECIAL TRANSPORT
- XYZ - XYZ CAB INC

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Remove Ref Trip

Version 2.27

Vehicle List

Vehicle	Desc	TotMi	XDist	TrTime	XTime	Penalty	SvcMi	SvcMi%	TotTime	SvcTime	SvcTime%	Trips	Trips/Hr	STime1	ETime1	Amb	WC	GISX
EAS	EASY TRANSPORTATION	14.1	.0	00:30	00:00	.0	12.8	90.7	14:00	00:42	5.0	3	.2	0600	2000	99	0	120573628
V01	VAN 01	28.0	.0	00:59	00:00	.0	16.6	59.6	12:00	01:25	11.9	6	.5	0600	1800	10	2	120573628
V02	VAN 02	8.7	.0	00:18	00:00	.0	6.1	70.0	12:00	00:17	2.4	2	.2	0600	1800	10	2	120573628
V03	VAN V03	5.9	.0	00:12	00:00	.0	5.9	100.0	10:00	00:16	2.8	2	.2	0800	1800	5	0	120573628
XYZ	XYZ CAB INC	19.9	.0	00:42	00:00	.0	5.8	28.8	22:00	00:18	1.4	3	.1	0100	2300	99	0	120573628

Trips for Vehicle XYZ - XYZ CAB INC

STime	OSTime	Arr	Dwell	Dep	Dist	Penalty	Blk	Time	Amb	WC	P/D	T/R	Swp	D/R	Zone	Name	Address	City
0100	0100	0100	0:00	0100	.0	.0	☐	*	0	0	P	R		R	000000	Start Shift		
0848	0835	0106	1:00	0844	3.0	.0	☐	00:04	1	0	P	T	N	R	515481	ROOSEVELT, THEODORE	2351 MARTINGALE RD	MEDIA
0900	0900	0847	1:00	0848	1.6	.0	☐	00:04	0	0	D	T	N	R	531480	ROOSEVELT, THEODORE	NEWTOWN SQ MUNICIPAL BLDG	NEWTOW
0922	0855	0857	1:00	0918	4.3	.0	☐	00:06	1	0	P	T	N	R	498500	WASHINGTON, GEORGE	122 E JEFFERSON ST	MEDIA
0930	0915	0923	1:00	0924	2.5	.0	☐	00:06	0	0	D	T	N	R	492478	WASHINGTON, GEORGE	GRANITE RUN MALL	MEDIA
1155	1200	0932	1:00	1156	4.0	.0	☐	00:04	1	0	P	R	N	R	531480	ROOSEVELT, THEODORE	NEWTOWN SQ MUNICIPAL BLDG	NEWTOW
1202	1225	1159	1:00	1200	1.6	.0	☐	00:04	0	0	D	R	N	R	515481	ROOSEVELT, THEODORE	2351 MARTINGALE RD	MEDIA
2300	2300	1206	0:00	1206	3.0	.0	☐	*	0	0	D	R		R	000000	End Shift		

Database Operations

Database operations allow users to lookup data records for tables that support the scheduling functions. Look tables include:

1. Client Records
2. Destination Records

Client Records

The Interactive Scheduler can display selected client records or all PtMS client using a Client Records Browse window.

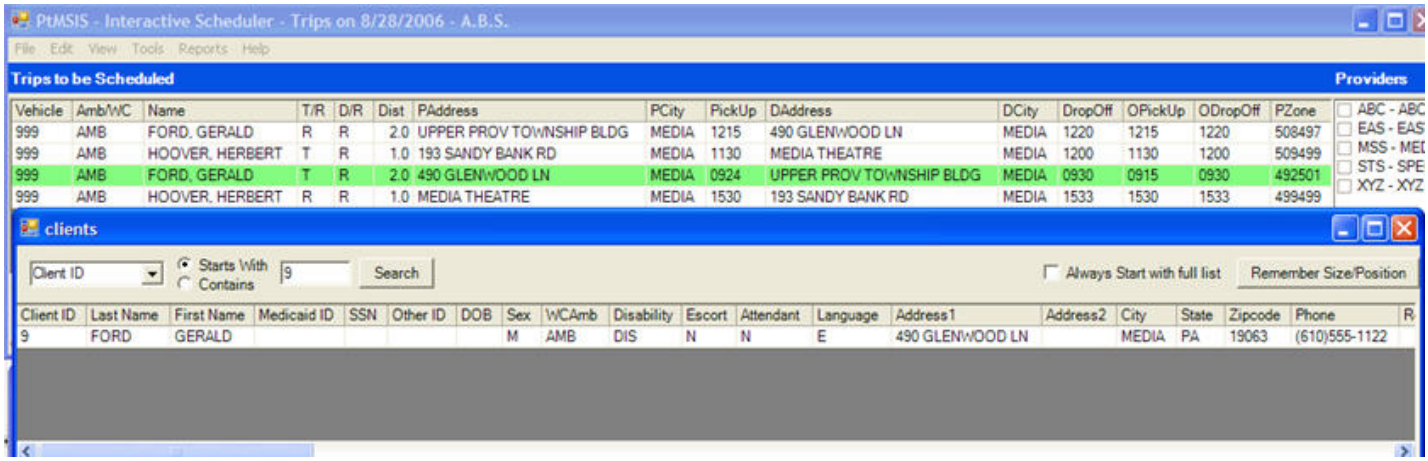
Included in this section:

- **How to display a client record for a selected trip**
- **How to browse and sort all client records**
- **How to search client records for matches on selected fields**

Displaying Client Record for a Selected Trip

The **client record information** for a selected trip record in the **Trips to Be Scheduled** window or the **Trips for Vehicle** window can be displayed by right clicking on the trip record and selecting **Client Detail**.

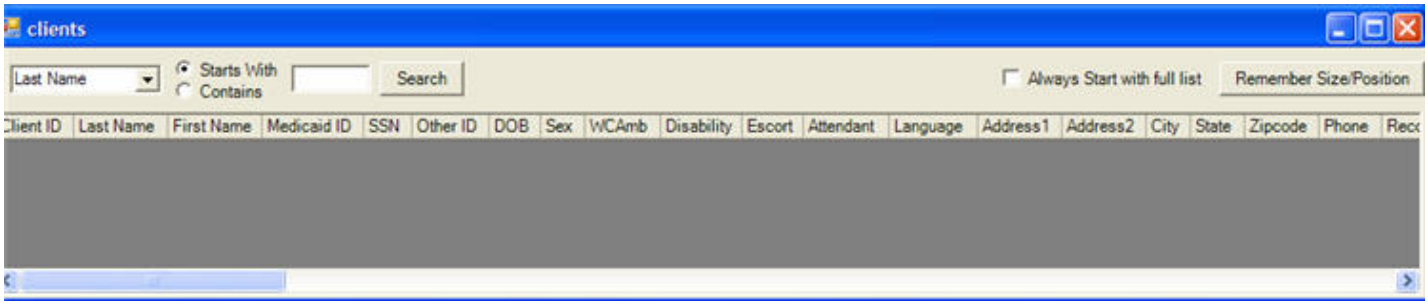
The record will be displayed and can be viewed by scrolling right to display all the record information.



Browsing All Client Records

From the Interactive Scheduler menu bar select View, Clients.

This will display the Client Records browse window. Note, some fields are off the screen to the right and require the user to scroll right to see the display.



To search for specific record in the Client Browse screen:

- Click on the fields list drop down and select a field to search
- Select the search criteria - either "Starts with" or "Contains"
- Enter all or part of the field value in the search box then click the Search button*

*Note: If you leave the search box blank and click on Search, all Client records will be displayed sorted by the search field.

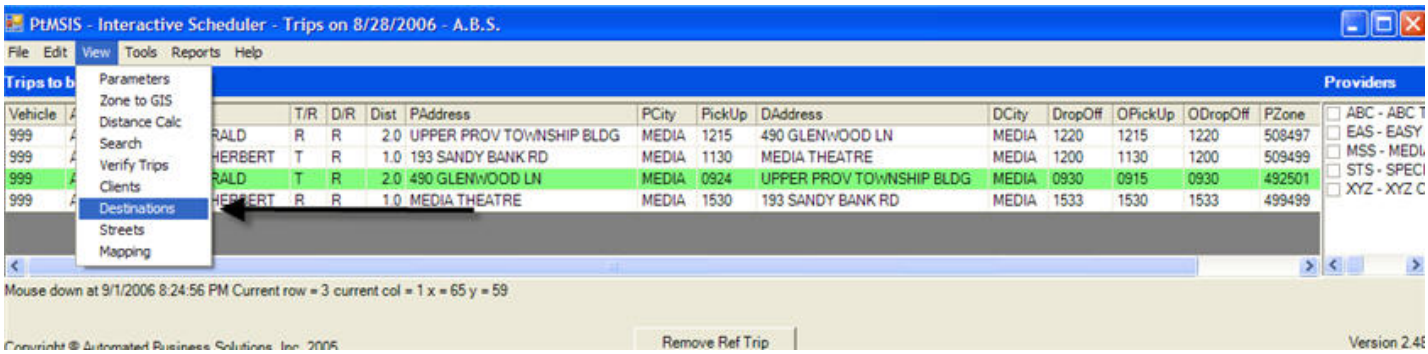
clients

Last Name | Starts With | Contains | Search | Always Start with full list | Remember Size/Position

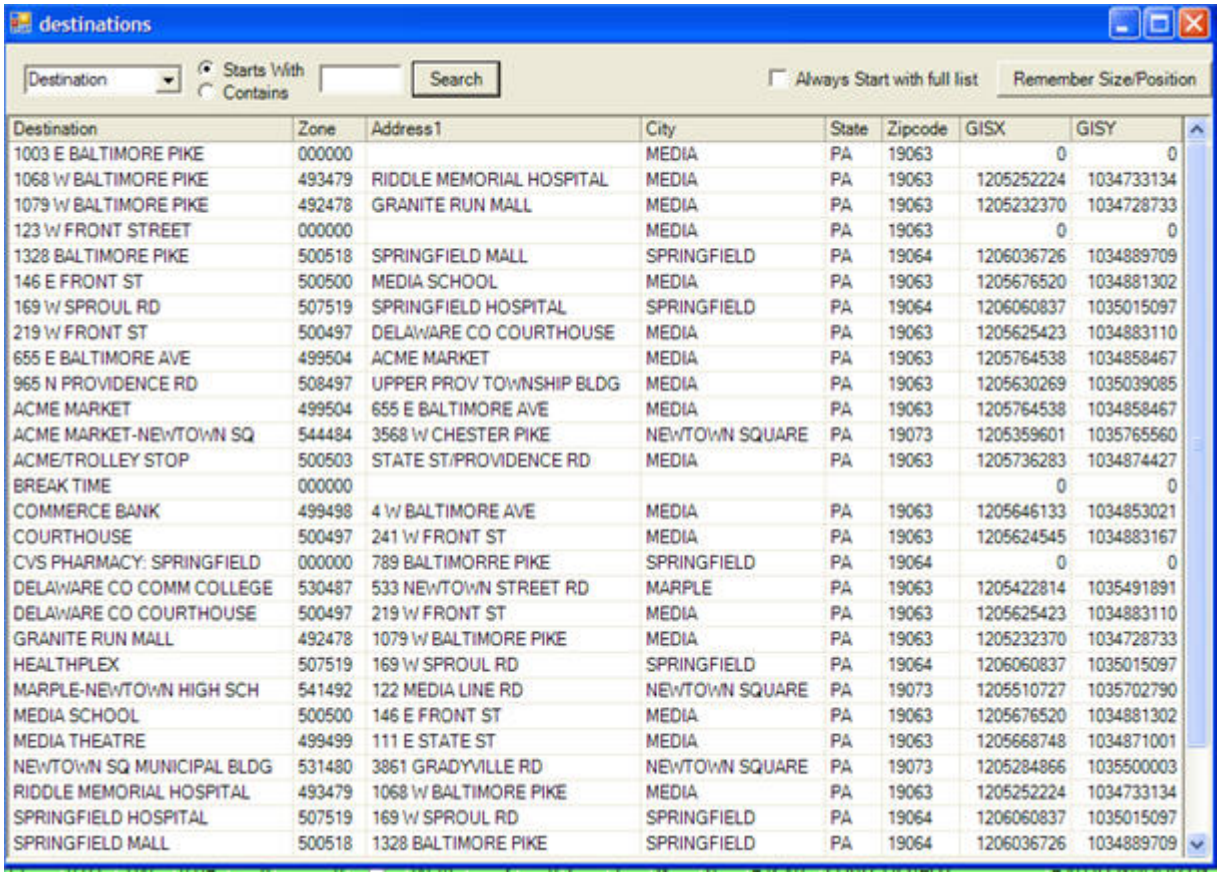
Client ID	Last Name	First Name	Medicaid ID	SSN	Other ID	DOB	Sex	WCAmb	Disability	Escort	Attendant	Language	Address1	Address2	City	State	Zipcode	Phone
4	ADAMS	JOHN						AMB	DIS				527 SANDY BANK RD		MEDIA	PA	19063	
8	CARTER	JIMMY					M	AMB		N	N	E	60 W LINCOLN ST		MEDIA	PA	19063	(610)55
15	DEMO-CLIENT	TEST						WC	DIS	N		E	43 PALMER MILL RD		MEDIA	PA	19063	
9	FORD	GERALD					M	AMB	DIS	N	N	E	490 GLENWOOD LN		MEDIA	PA	19063	(610)55
13	HOOVER	HERBERT					M	AMB		N	N	E	193 SANDY BANK RD		MEDIA	PA	19063	(610)55
6	JEFFERSON	THOMAS					M	AMB					86 E 5TH ST		MEDIA	PA	19063	(610)55
3	LINCOLN	ABRAHAM					M	AMB	DIS			E	1110 WOODED WAY DR		MEDIA	PA	19063	
12	POLK	JAMES					M	AMB		N	N	E	393 SYCAMORE MILLS RD		MEDIA	PA	19063	(610)55
10	REAGAN	RONALD					M	AMB	DIS	N	N	E	39 W RIDGE RD		MEDIA	PA	19063	(610)55
11	ROOSEVELT	THEODORE					M	AMB	DIS			E	2351 MARTINGALE RD		MEDIA	PA	19063	
5	SHUTTLE	MEDIA						AMB					100 STATE ST		MEDIA	PA	19063	
14	TRUMAN	HARRY					M	AMB		N	N	E	414 MEETINGHOUSE LN		MEDIA	PA	19063	(610)55
2	WASHINGTON	GEORGE			TEST		M	AMB	DIS				122 E JEFFERSON ST		MEDIA	PA	19063	

Destinations

From the Interactive Scheduler menu bar **select View, Destinations**.



This will display the Destination Records browse window.



destinations

Destination | Starts With | Contains | Search | Always Start with full list | Remember Size/Position

Destination	Zone	Address1	City	State	Zipcode	GISX	GISY
1003 E BALTIMORE PIKE	000000		MEDIA	PA	19063	0	0
1068 W BALTIMORE PIKE	493479	RIDDLE MEMORIAL HOSPITAL	MEDIA	PA	19063	1205252224	1034733134
1079 W BALTIMORE PIKE	492478	GRANITE RUN MALL	MEDIA	PA	19063	1205232370	1034728733
123 W FRONT STREET	000000		MEDIA	PA	19063	0	0
1328 BALTIMORE PIKE	500518	SPRINGFIELD MALL	SPRINGFIELD	PA	19064	1206036726	1034889709
146 E FRONT ST	500500	MEDIA SCHOOL	MEDIA	PA	19063	1205676520	1034881302
169 W SPROUL RD	507519	SPRINGFIELD HOSPITAL	SPRINGFIELD	PA	19064	1206060837	1035015097
219 W FRONT ST	500497	DELAWARE CO COURTHOUSE	MEDIA	PA	19063	1205625423	1034883110
655 E BALTIMORE AVE	499504	ACME MARKET	MEDIA	PA	19063	1205764538	1034858467
965 N PROVIDENCE RD	508497	UPPER PROV TOWNSHIP BLDG	MEDIA	PA	19063	1205630269	1035039085
ACME MARKET	499504	655 E BALTIMORE AVE	MEDIA	PA	19063	1205764538	1034858467
ACME MARKET-NEWTOWN SQ	544484	3568 W CHESTER PIKE	NEWTOWN SQUARE	PA	19073	1205359601	1035765560
ACME/TROLLEY STOP	500503	STATE ST/PROVIDENCE RD	MEDIA	PA	19063	1205736283	1034874427
BREAK TIME	000000					0	0
COMMERCE BANK	499498	4 W BALTIMORE AVE	MEDIA	PA	19063	1205646133	1034853021
COURTHOUSE	500497	241 W FRONT ST	MEDIA	PA	19063	1205624545	1034883167
CVS PHARMACY: SPRINGFIELD	000000	789 BALTIMORRE PIKE	SPRINGFIELD	PA	19064	0	0
DELAWARE CO COMM COLLEGE	530487	533 NEWTOWN STREET RD	MARPLE	PA	19063	1205422814	1035491891
DELAWARE CO COURTHOUSE	500497	219 W FRONT ST	MEDIA	PA	19063	1205625423	1034883110
GRANITE RUN MALL	492478	1079 W BALTIMORE PIKE	MEDIA	PA	19063	1205232370	1034728733
HEALTHPLEX	507519	169 W SPROUL RD	SPRINGFIELD	PA	19064	1206060837	1035015097
MARPLE-NEWTOWN HIGH SCH	541492	122 MEDIA LINE RD	NEWTOWN SQUARE	PA	19073	1205510727	1035702790
MEDIA SCHOOL	500500	146 E FRONT ST	MEDIA	PA	19063	1205676520	1034881302
MEDIA THEATRE	499499	111 E STATE ST	MEDIA	PA	19063	1205668748	1034871001
NEWTOWN SQ MUNICIPAL BLDG	531480	3861 GRADYVILLE RD	NEWTOWN SQUARE	PA	19073	1205284866	1035500003
RIDDLE MEMORIAL HOSPITAL	493479	1068 W BALTIMORE PIKE	MEDIA	PA	19063	1205252224	1034733134
SPRINGFIELD HOSPITAL	507519	169 W SPROUL RD	SPRINGFIELD	PA	19064	1206060837	1035015097
SPRINGFIELD MALL	500518	1328 BALTIMORE PIKE	SPRINGFIELD	PA	19064	1206036726	1034889709

Mapping

Mapping operations allow users to place selected trips or entire vehicle routes on the map. Once a vehicle route, or part of a vehicle route(s) are displayed on the map, the route can be manipulated by the users, pickup and dropoff order can be adjusted, trips added, etc.

Mapping operations also allow users to geocode - assign map coordinates - to new unmapped addresses.

Mapping Trip Records and Vehicle Routes

This section outlines how to use the Interactive Scheduler to map individual trip records, select trips within a vehicle schedule, entire vehicle schedules, and trips combined across vehicle schedules. Once mapped the street route and travel time and distance can be calculated and displayed on the map.

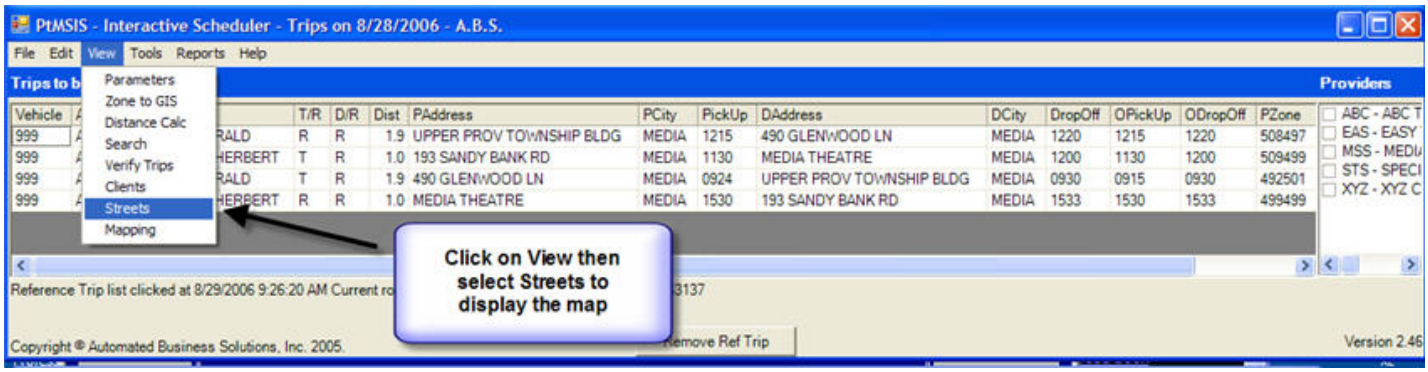
Included in this section:

- **Overview of the Streets 2006 Map Software**
- **How to access the map commands**
- **Map commands summary**
- **How to highlight trips on the map**
- **How to add trips to the route list and produce the route**
- **How to produce the route report**

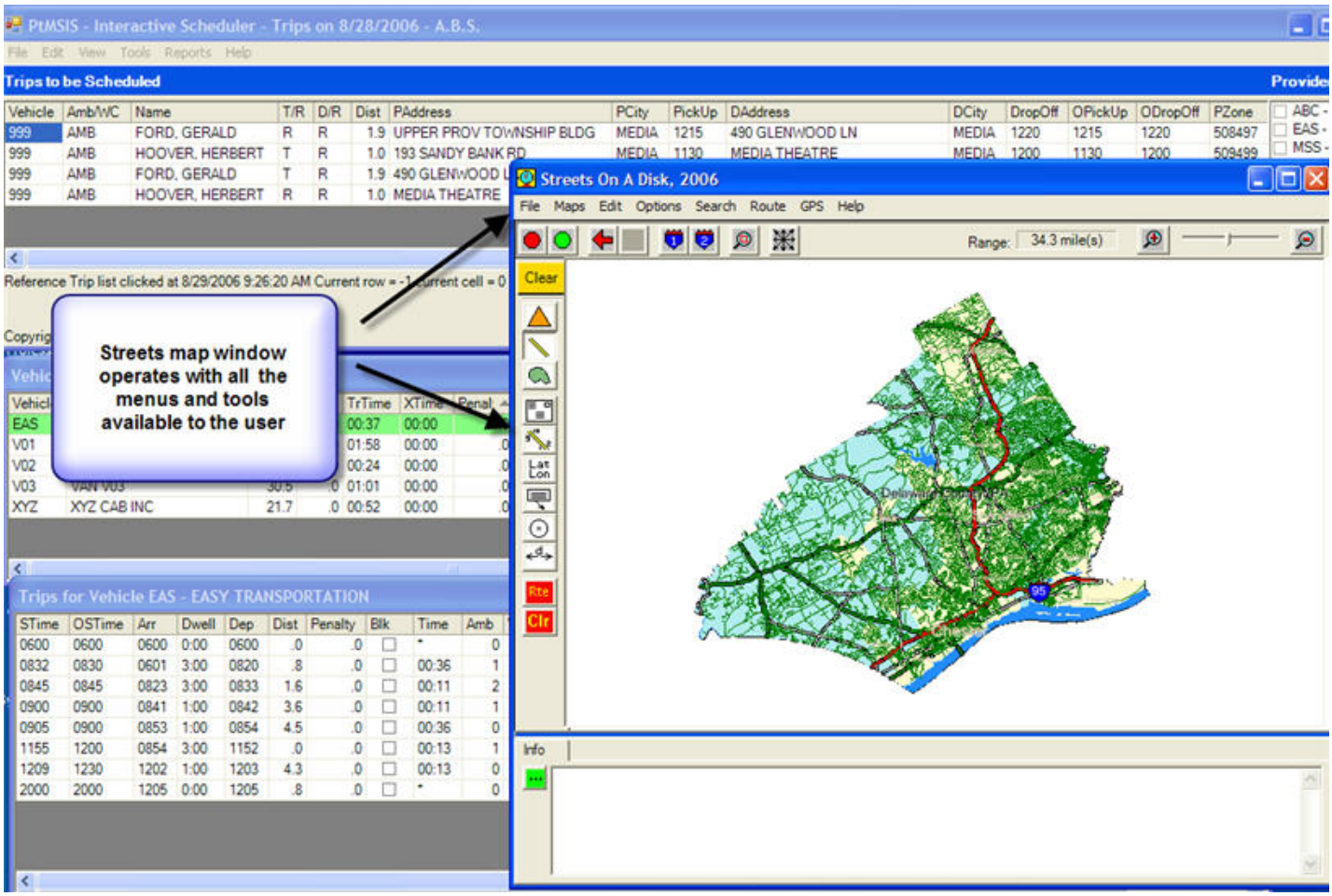
Streets 2006 Map Software

Opening the Map Window

From the menu bar at the top select View, the Streets to open the Map window.



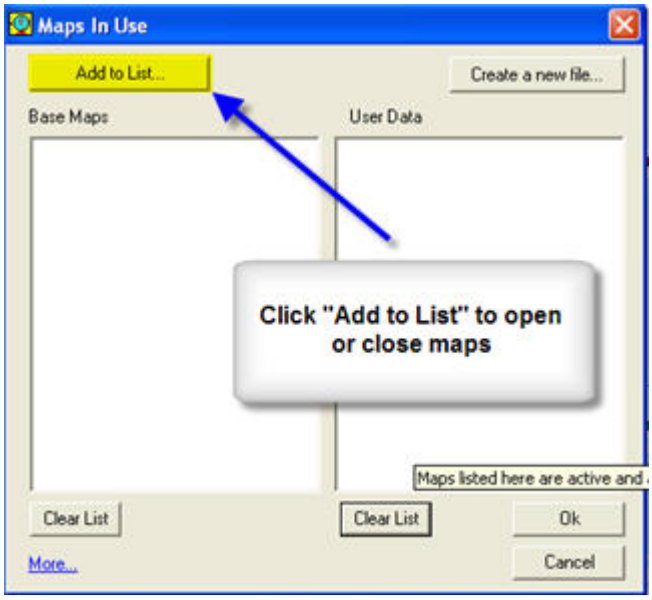
Once the map window is open, the user has all the map menus and tools available. You must open the Maps menu and select your maps the first time the Map window is opened. Once installed, they do not have to be opened again even after closing and reopening the Interactive Scheduler. Just open the Map window before display trips records or entire routes on the map.



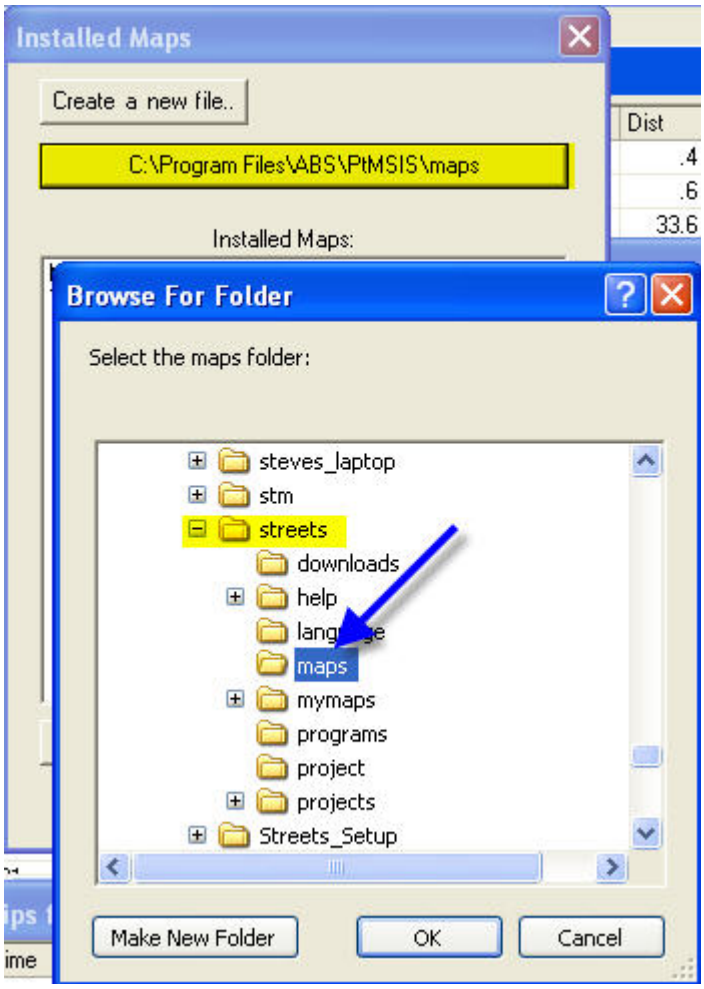
Select Maps to Open in Streets

First Open the Streets Map from the PtMSIS View menu on the Tool Bar.

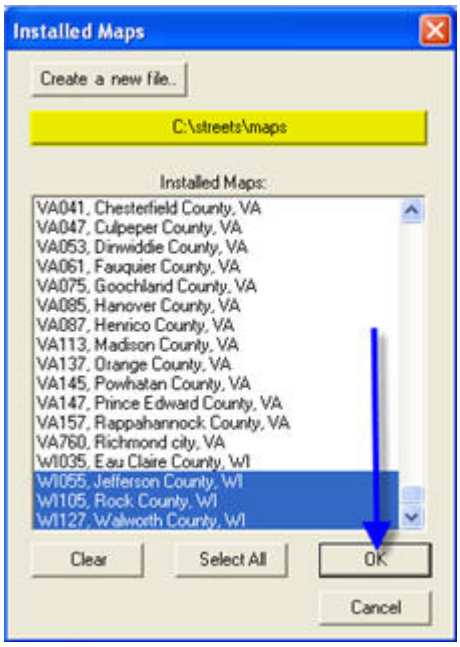
Next, click on the Streets/Maps menu on the Streets Toolbar and you will open this window and click on 'Add to List':



Next, browse to the C:\Streets\Map folder and click on this to select it.

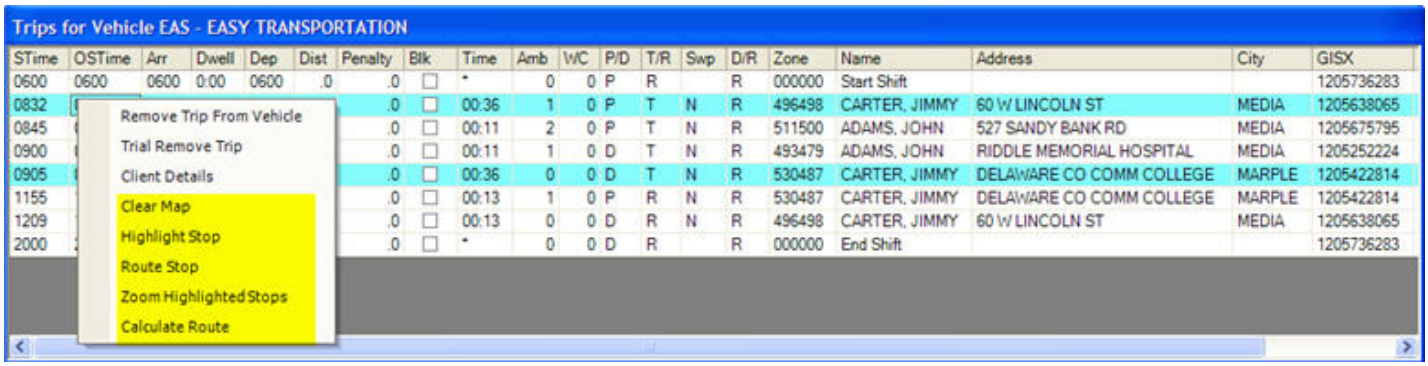


Browse and find your maps in the list, click on the maps (CTRL+left click to select more than one) then click OK to open the maps.



Accessing the Map Commands

In each of the three scheduling windows right click on a trip or line to display the commands menu. Map commands are listed in each menu.



Map Commands Summary

Here is a list of the mapping commands available on the menus and a brief description of their function. Are more detailed description of the command is included in a separate help section below.

Clear Map

This selection clears the map display of all highlights and route stops. The Route list is completely cleared. Select this command when preparing to add stops or trips to a "clean map" that does not contain any previous routing information.

Highlight Trip(s) or Stop(s)

A trip represents the pickup and dropoff address. A stop can be either the pickup or the dropoff address of a specific trip.
Highlighting a trip or stop simply attaches a label to that point(s) on the map. This option does not call the Map window to the top of the display. Popping up the map each time you selected a stop or trip record to highlight on the map would slow down mapping operations since the map would redraw and display with each highlight.

Zoom Highlighted Trip(s) or Stops(s)

Select the Zoom Highlighted Trips or Stops command to popup the Map window and resize the display to include all the highlighted points.

Route Trip(s) or Stop(s)

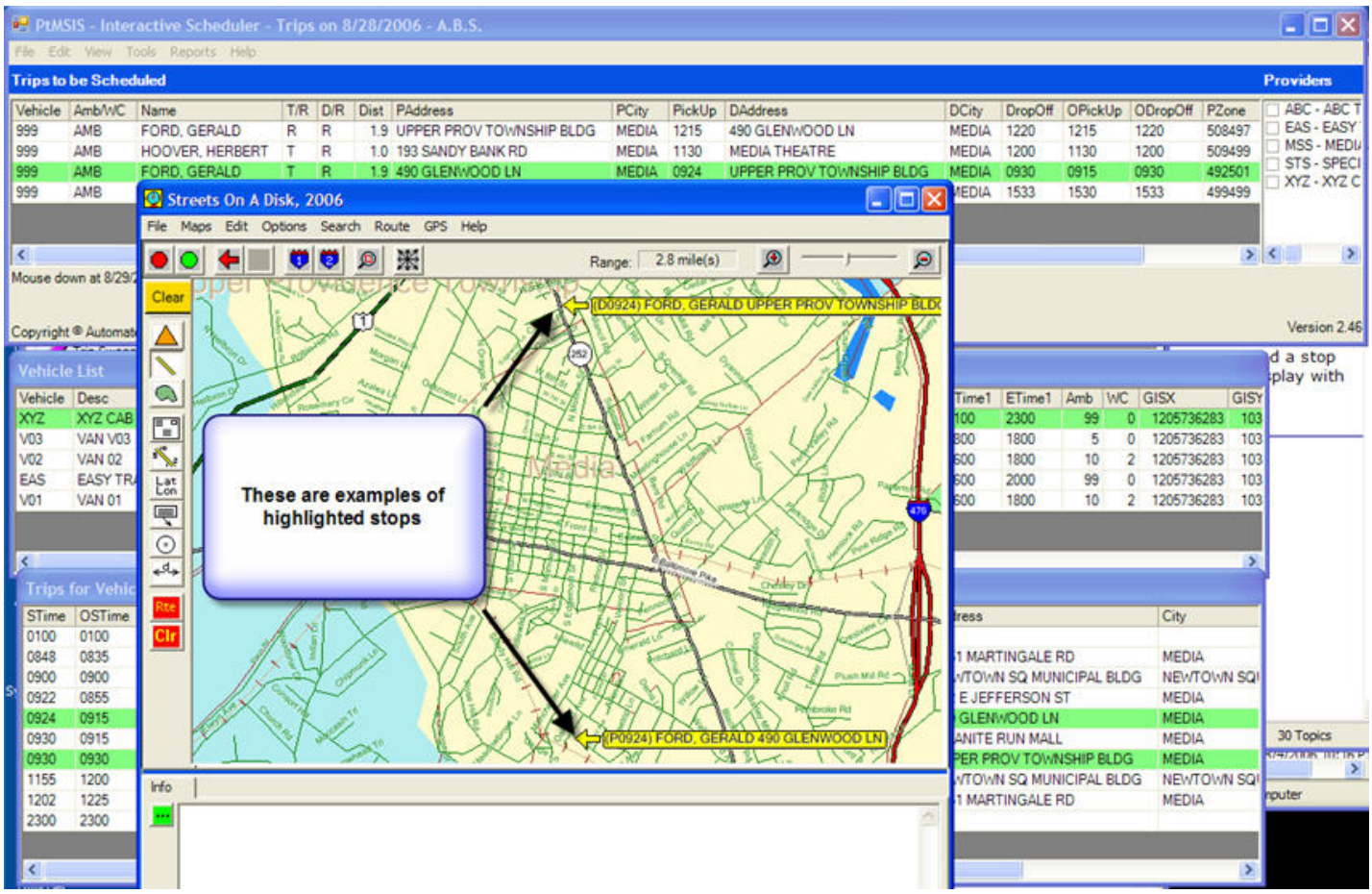
This command places the stop(s) in the Route list. They are appended to the end of the list. An icon is placed on the map at the stop location with a number representing the order in the Route list.

Calculate Route

This command calculates the street path route from the stops in the route list. The route is displayed on the map.

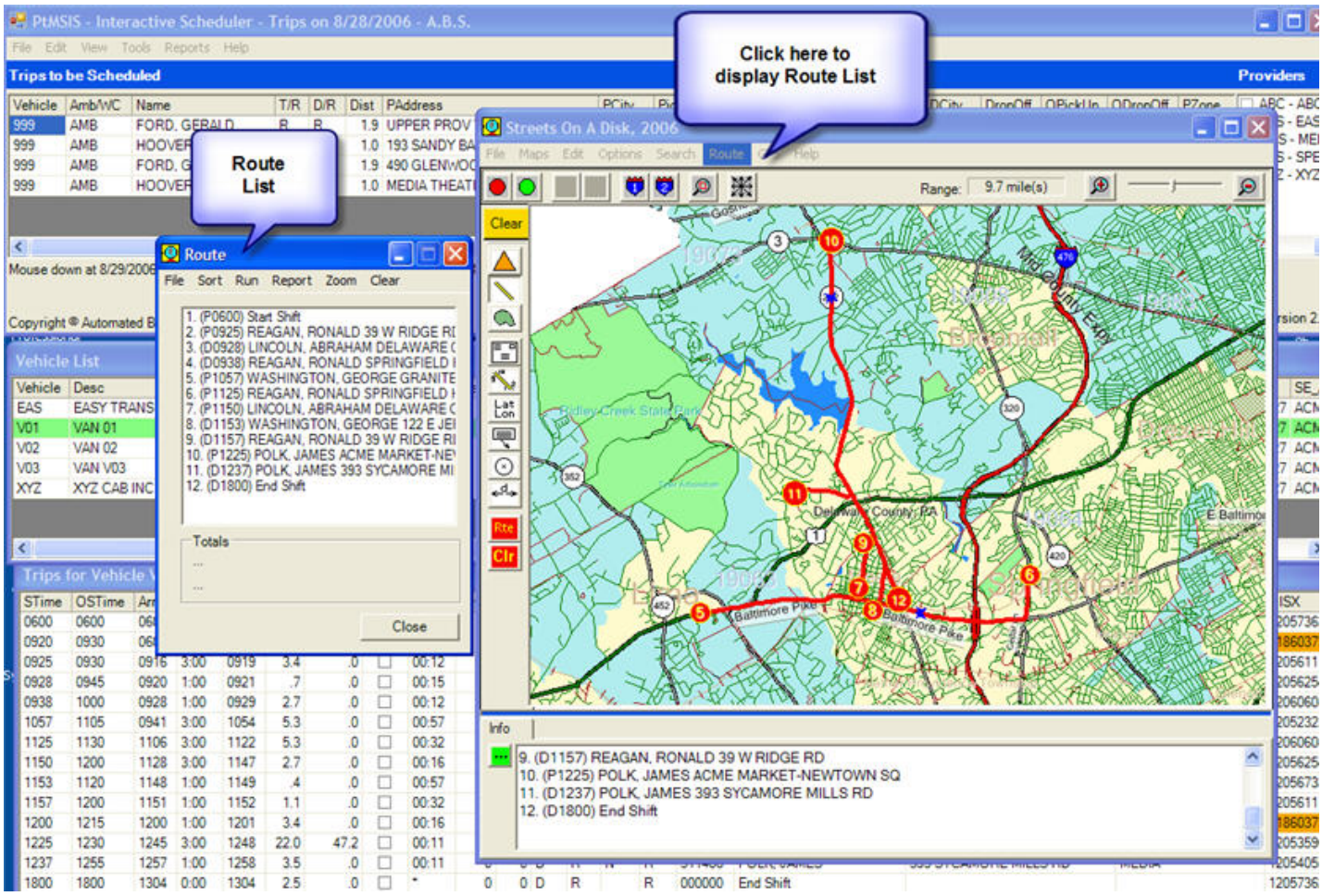
Highlighting Trips

Highlighting a trip or stop attaches a label to that point(s) on the map. Here is an example of a Trip to Be Scheduled displayed on the map as highlights. After highlighting the trip, the user selects **Zoom to Highlighted Trips** to display the highlights on the map.



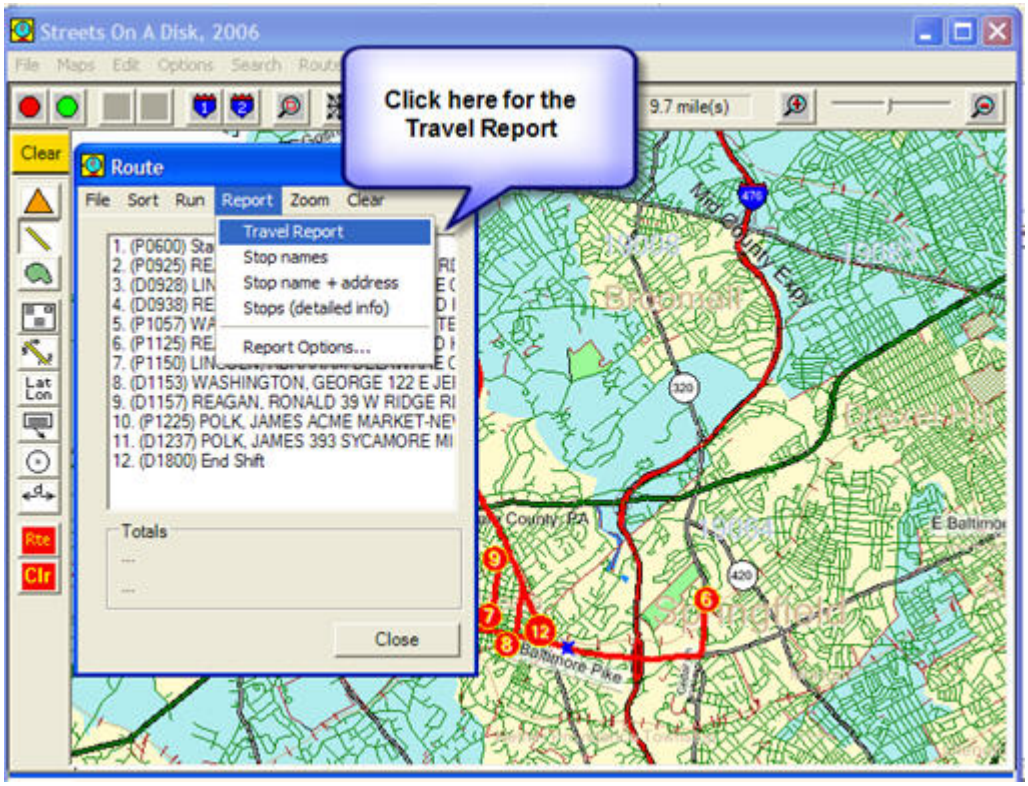
Routing Trips

Route Trip or Route All Stops places the selected stop(s) in the Route list. They are appended to the end of the list. In addtion an icon is placed on the map at each stop location with a number representing the order in the Route list. The **Calculate Route** command calculates the street path route from the stops in the route list. The route is displayed on the map.



Route Reports

Once the **Calculate Route** command is executed, the user can request a detailed **Travel Report** for the route. The Travel Report lists the drive directions to each stop on the route. Travel time and mileage between stops is listed as well. The Travel Report can be edited or printed.



A sample Travel Report is displayed below:

```
Starting Clock: 06:00 AM
Visit Time: 0 hr(s), 3.00 min. (= 0.050 hrs)
Fuel: 20 mi/gal
Cost: $0.25 per mile(s)
--------------------------
Start: 1. (P0600) Start Shift
--------------------------
    Go northwest, 0.9 mile(s),  on ST-252.
    Turn left, go southwest, 0.2 mile(s),  on Ridge Rd.
--------------------------
Stop: 2. (P0925) REAGAN, RONALD 39 W RIDGE RD
    Clock (arrival): 06:01 AM
    Time (from start): 0 hr(s), 1.50 min. (= 0.025 hrs)
    Distance(from start): 1.0 mile(s)
    Clock (depart): 06:04 AM
--------------------------
--------------------------
    Go east, 489 ft,  on Ridge Rd.
    Turn right, go south, 0.6 mile(s),  on Olive St.
    Turn right, go west, 151 ft,  on Front St.
--------------------------
Stop: 3. (D0928) LINCOLN, ABRAHAM DELAWARE CO COURTHOUSE
    Clock (arrival): 06:06 AM
    Time (from last stop): 0 hr(s), 1.50 min. (= 0.025 hrs)
    Time (from start): 0 hr(s), 6.00 min. (= 0.100 hrs)
    Distance(from last stop): 0.8 mile(s)
    Distance(from start): 1.8 mile(s)
    Clock (depart): 06:09 AM
--------------------------
--------------------------
    Go east, 151 ft,  on Front St.
    Turn right, go south, 181 ft,  on Olive St.
    Turn left, go east, 171 ft,  on Jasper St.
    Turn right, go south, 514 ft,  on Plum St.
    Turn left, go east, 2.2 mile(s),  on Baltimore Pike.
    Turn left, go north, 0.6 mile(s),  on ST-320.
--------------------------
Stop: 4. (D0938) REAGAN, RONALD SPRINGFIELD HOSPITAL
    Clock (arrival): 06:13 AM
    Time (from last stop): 0 hr(s), 4.11 min. (= 0.068 hrs)
    Time (from start): 0 hr(s), 13.10 min. (= 0.218 hrs)
    Distance(from last stop): 3.0 mile(s)
    Distance(from start): 4.8 mile(s)
    Clock (depart): 06:16 AM
--------------------------
--------------------------
    Go south, 0.6 mile(s),  on ST-320.
    Turn right, go west, 4.4 mile(s),  on Baltimore Pike.
--------------------------
Stop: 5. (P1057) WASHINGTON, GEORGE GRANITE RUN MALL
    Clock (arrival): 06:23 AM
    Time (from last stop): 0 hr(s), 6.45 min. (= 0.107 hrs)
    Time (from start): 0 hr(s), 22.55 min. (= 0.376 hrs)
    Distance(from last stop): 5.0 mile(s)
    Distance(from start): 9.7 mile(s)
    Clock (depart): 06:26 AM
--------------------------
--------------------------
    Go northeast, 0.5 mile(s),  on US-1.
    Slight turn left, go northeast, 3.9 mile(s),  on Baltimore Pike.
    Turn left, go north, 0.6 mile(s),  on ST-320.
--------------------------
Stop: 6. (P1125) REAGAN, RONALD SPRINGFIELD HOSPITAL
    Clock (arrival): 06:32 AM
    Time (from last stop): 0 hr(s), 6.45 min. (= 0.107 hrs)
    Time (from start): 0 hr(s), 32.00 min. (= 0.533 hrs)
    Distance(from last stop): 5.0 mile(s)
    Distance(from start): 14.7 mile(s)
    Clock (depart): 06:35 AM
--------------------------
--------------------------
    Go south, 0.6 mile(s),  on ST-320.
    Turn right, go west, 2.2 mile(s),  on Baltimore Pike.
    Turn right, go north, 514 ft,  on Plum St.
    Turn left, go west, 171 ft,  on Jasper St.
    Turn right, go north, 181 ft,  on Olive St.
    Turn left, go west, 151 ft,  on Front St.
--------------------------
Stop: 7. (P1150) LINCOLN, ABRAHAM DELAWARE CO COURTHOUSE
    Clock (arrival): 06:39 AM
    Time (from last stop): 0 hr(s), 4.11 min. (= 0.068 hrs)
    Time (from start): 0 hr(s), 39.11 min. (= 0.652 hrs)
    Distance(from last stop): 3.0 mile(s)
    Distance(from start): 17.7 mile(s)
    Clock (depart): 06:42 AM
--------------------------
--------------------------
    Go east, 151 ft,  on Front St.
    Turn right, go south, 181 ft,  on Olive St.
    Turn left, go east, 171 ft,  on Jasper St.
    Turn right, go south, 514 ft,  on Plum St.
    Turn left, go east, 0.1 mile(s),  on Baltimore Pike.
    Turn right, go south, 512 ft,  on Monroe St.
    Turn left, go east, 87 ft,  on Jefferson St.
--------------------------
Stop: 8. (D1153) WASHINGTON, GEORGE 122 E JEFFERSON ST
    Clock (arrival): 06:43 AM
    Time (from last stop): 0 hr(s), 0.80 min. (= 0.013 hrs)
    Time (from start): 0 hr(s), 42.91 min. (= 0.715 hrs)
    Distance(from last stop): 0.4 mile(s)
    Distance(from start): 18.1 mile(s)
    Clock (depart): 06:46 AM
--------------------------
--------------------------
    Go east, 85 ft,  on Jefferson St.
    Turn left, go north, 492 ft,  on Gayley St.
    Turn right, go east, 281 ft,  on Baltimore Pike.
    Turn left, go north, 0.5 mile(s),  on Edgemont St.
    Slight turn left, go northwest, 0.4 mile(s),  on ST-252.
    Turn left, go southwest, 0.2 mile(s),  on Ridge Rd.
--------------------------
Stop: 9. (D1157) REAGAN, RONALD 39 W RIDGE RD
    Clock (arrival): 06:48 AM
    Time (from last stop): 0 hr(s), 2.15 min. (= 0.036 hrs)
    Time (from start): 0 hr(s), 48.06 min. (= 0.801 hrs)
    Distance(from last stop): 1.2 mile(s)
    Distance(from start): 19.3 mile(s)
    Clock (depart): 06:51 AM
--------------------------
--------------------------
    Go east, 0.2 mile(s),  on Ridge Rd.
    Turn left, go northwest, 4.3 mile(s),  on ST-252.
    Hard turn right, go east, 0.2 mile(s),  on ST-3.
--------------------------
Stop: 10. (P1225) POLK, JAMES ACME MARKET-NEWTOWN SQ
    Clock (arrival): 06:57 AM
    Time (from last stop): 0 hr(s), 6.25 min. (= 0.104 hrs)
    Time (from start): 0 hr(s), 57.30 min. (= 0.955 hrs)
    Distance(from last stop): 4.6 mile(s)
    Distance(from start): 23.9 mile(s)
    Clock (depart): 07:00 AM
--------------------------
--------------------------
    Go west, 0.2 mile(s),  on ST-3.
    Hard turn left, go southeast, 3.6 mile(s),  on ST-252.
    Turn right, go southwest, 357 ft,  on Rose Tree Rd.
    Slight turn right, go west, 0.7 mile(s),  on Sycamore Mills Rd.
--------------------------
Stop: 11. (D1237) POLK, JAMES 393 SYCAMORE MILLS RD
    Clock (arrival): 07:07 AM
    Time (from last stop): 0 hr(s), 6.55 min. (= 0.109 hrs)
    Time (from start): 1 hr(s), 6.86 min. (= 1.114 hrs)
    Distance(from last stop): 4.5 mile(s)
    Distance(from start): 28.5 mile(s)
    Clock (depart): 07:10 AM
--------------------------
--------------------------
    Go northeast, 0.7 mile(s),  on Sycamore Mills Rd.
    Slight turn left, go northeast, 357 ft,  on Rose Tree Rd.
    Turn right, go southeast, 1.6 mile(s),  on ST-252.
--------------------------
Stop: 12. (D1800) End Shift
    Clock (arrival): 07:14 AM
    Time (from last stop): 0 hr(s), 3.68 min. (= 0.061 hrs)
    Time (from start): 1 hr(s), 13.53 min. (= 1.226 hrs)
    Distance(from last stop): 2.4 mile(s)
    Distance(from start): 30.8 mile(s)
-----
Clock (final): 07:14 AM
Total Distance: 30.8 mile(s)
```

Optimizing Schedules

Optimizing Schedules involves taking existing schedules designed by the user and the Interactive Scheduler and determining if further improvedments are possible:

1. Improve route efficiency by lowering travel miles and hours for a vehicle route(s)
2. Improve on-time performance
3. Increasie trips per hour
4. Increase percentage of service miles and service hours per vehicle
5. Lower average travel time per client

Route Optimization and Trip Swapping are schedules tools designed to assist the user with achieving these results. The Vehicle List display and the Vehicle Productivity Report can assist the user with monitoring the schedule improvements.

Vehicle List

Vehicle	Tour	Desc	TotMi	XDist	TrTime	XTime	Penalty	SvcMi	SvcMi%	TotTime	SvcTime	SvcTime%	Trips	Trips/Hr	STime1	ETime1
66A	66A		14.2	.0	00:24	00:00	.0	14.2	100.0	12:00	00:36	5.1	6	.5	0700	1900
66P	66P		14.2	.0	00:24	00:00	.0	14.2	100.0	12:00	00:33	4.7	6	.5	0700	1900
9A	9A	108	32.7	.0	01:04	00:00	.0	32.7	100.0	12:00	01:46	14.8	14	1.2	0700	1900
9P	9P	108	65.4	.0	01:43	00:00	.0	57.4	87.7	16:59	02:27	14.5	14	.8	0700	2359
29A	29A	112	169.3	.0	03:29	00:00	.0	169.3	100.0	12:00	04:32	37.9	15	1.3	0700	1900
29P	29P	112	31.8	.0	00:45	00:00	.0	31.8	100.0	12:00	01:25	11.9	12	1.0	0700	1900
30A	30A	112	4.6	.0	00:11	00:00	.0	4.6	99.9	12:00	00:35	5.0	8	.7	0700	1900
30P	30P	112	5.2	.0	00:12	00:00	.0	5.2	99.9	12:00	00:25	3.6	8	.7	0700	1900
10A	10A	113	60.1	.0	01:34	00:00	.0	59.6	99.1	16:59	02:24	14.2	11	.6	0700	2359
10P	10P	113	84.3	.0	02:13	00:00	.0	72.1	85.4	16:59	02:41	15.8	11	.6	0700	2359
7A	7A	116	69.7	.0	01:41	00:00	.0	69.7	100.0	12:00	03:25	28.5	18	1.5	0700	1900
7P	7P	116	107.0	.0	02:32	00:00	.0	107.0	100.0	12:00	03:09	26.3	19	1.6	0700	1900

Route Optimization

PtMS IS Route Optimization will assist users with reducing vehicle drive time and mileage in selected sections of vehicle schedules.

Briefly stated, Route Optimization will take a set of pickups and dropoffs and determine the shortest pickup sequence (for a group of pickups going to a common location) or the shortest drop-off sequence (for a group of trips picked up at a common location at the same time and being taken home).

When can you apply Route Optimization?

- Consecutive pickups going to a common drop-off location.
- Multiple pickups at a common pickup location being dropped off at home.

Requirements for Multiple Pickups going to a Common Destinations

- Pickup times must be flexible so that PtMS IS is allowed to change the pickup time sequence.
- Pickups going to a common site must be consecutive.

- A common drop-off time for all clients will satisfy their scheduling requirements.

Examples of Multiple Pickups Going to a Common Destination

Example 1:

Client A pickup
Client B pickup
Client C pickup
Client D pickup
Client E pickup

Drop-off at Common Destination 1 for Clients A, B, C, D, E

Example 2:

Client A pickup
Client B pickup
Client C pickup
Client D pickup
Client E pickup

Drop-off at Common Destination 1 for Clients A, B, E
Drop-off at Common Destination 2 for Clients C, D

Requirements for Multiple Drop-offs from a Common Pickup Location

- Common pickup time for all clients at the common pickup location.
- Flexible drop-off times.

Examples of Multiple Drop-offs from a common Pickup location

Example 1:

Pickup Client A, B, C at Pickup Location 1 at the same Pickup Time

Drop-off Client B
Drop-off Client A
Drop-off Client C

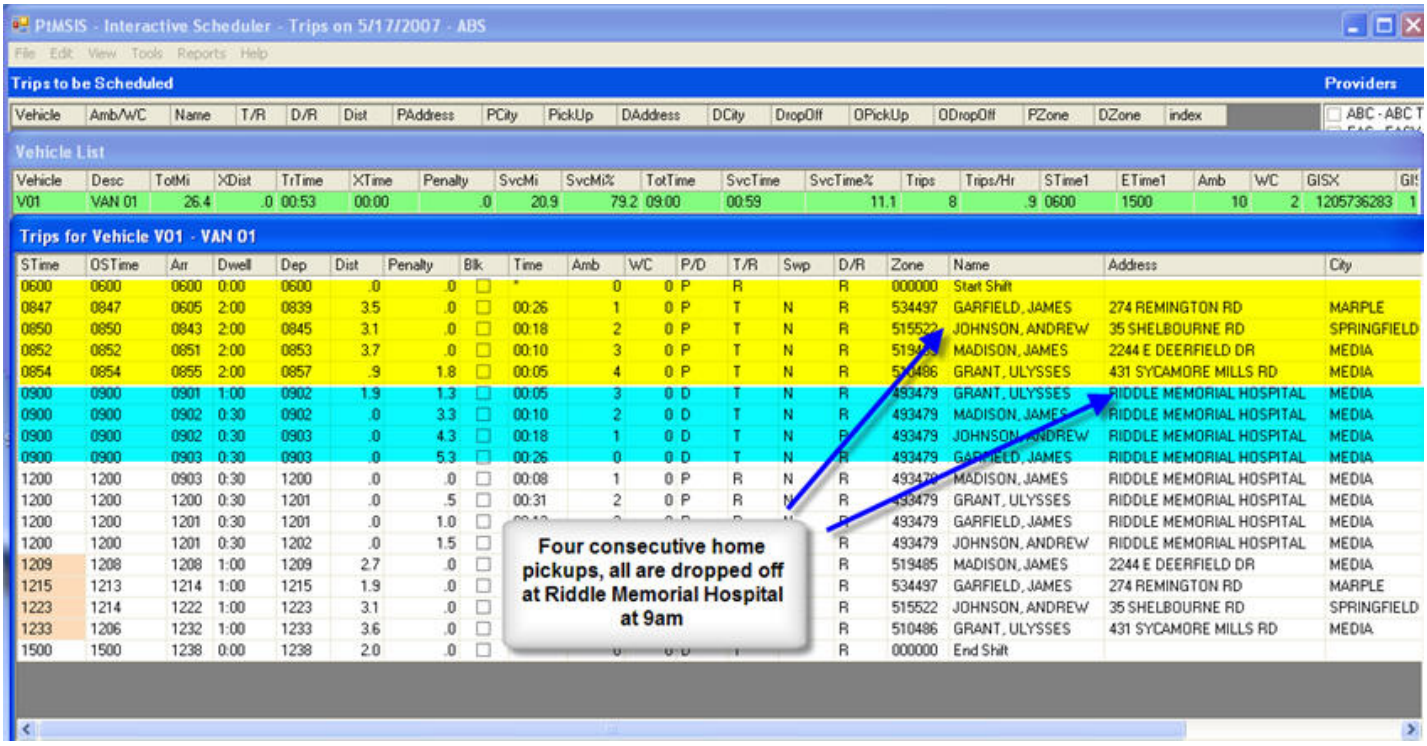
Example 2:

Pickup Client A, B, C at Pickup Location 1 at the same Pickup Time
Pickup Client D, E at Pickup Location 2 at the same Pickup Time

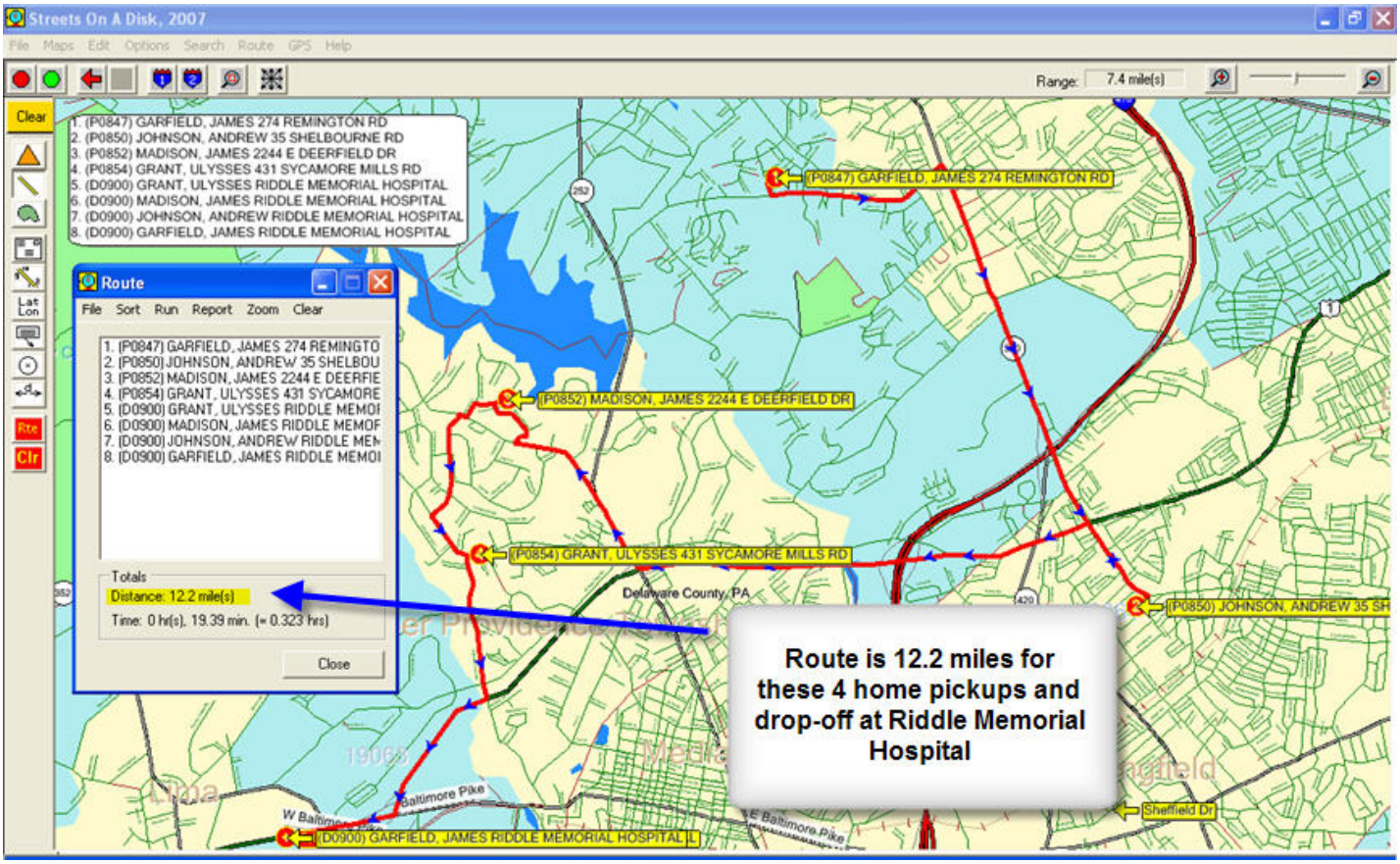
Drop-off Client A
Drop-off Client D
Drop-off Client C
Drop-off Client B
Drop-off Client E

Route Optimization Example

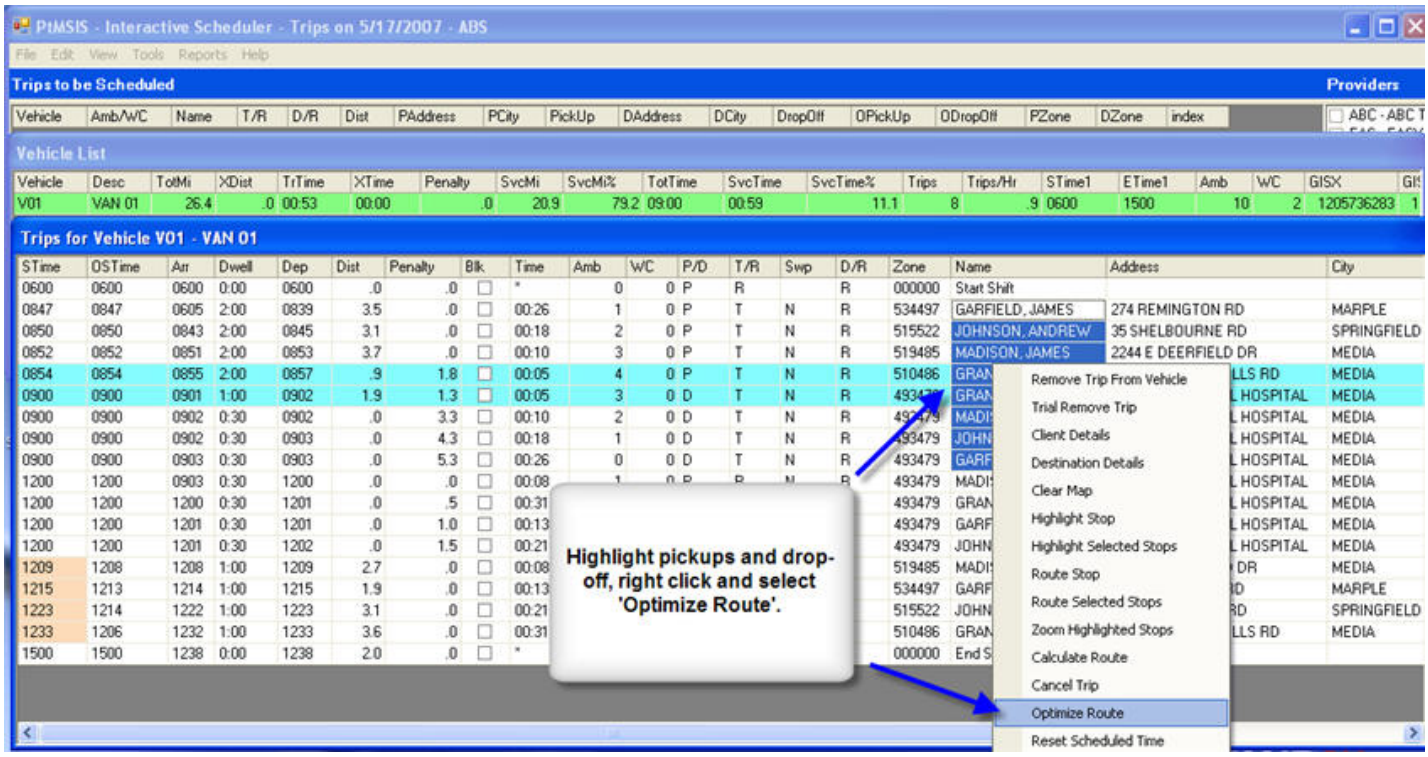
Multiple Pickups to Common Destination Schedule



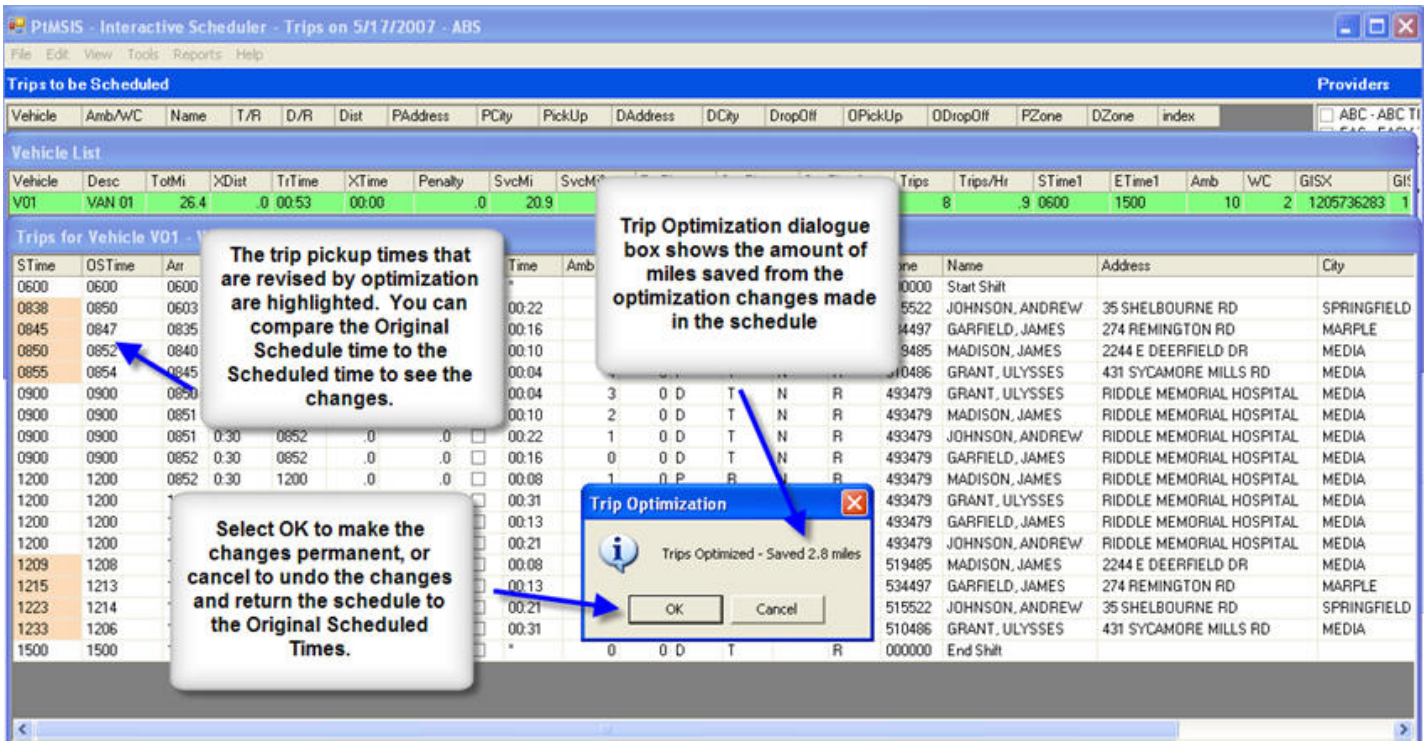
Multiple Pickups to Common Destination Route Map

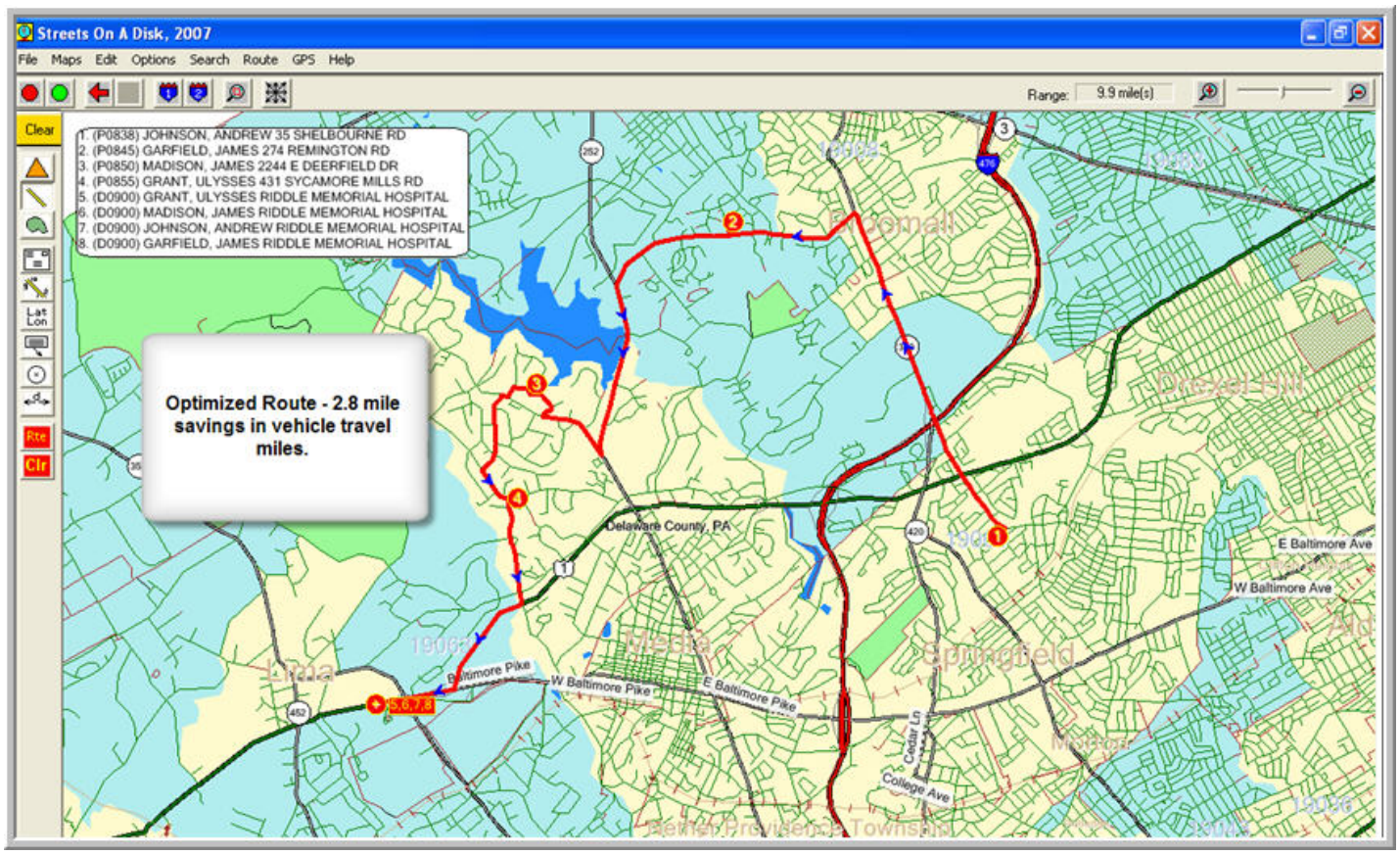

Streets On A Disk, 2007
Range: 7.4 mile(s)
Clear
1. (P0847) GARFIELD, JAMES 274 REMINGTON RD
2. (P0850) JOHNSON, ANDREW 35 SHELBOURNE RD
3. (P0852) MADISON, JAMES 2244 E DEERFIELD DR
4. (P0854) GRANT, ULYSSES 431 SYCAMORE MILLS RD
5. (D0900) GRANT, ULYSSES RIDDLE MEMORIAL HOSPITAL
6. (D0900) MADISON, JAMES RIDDLE MEMORIAL HOSPITAL
7. (D0900) JOHNSON, ANDREW RIDDLE MEMORIAL HOSPITAL
8. (D0900) GARFIELD, JAMES RIDDLE MEMORIAL HOSPITAL
Route
File Sort Run Report Zoom Clear
1. (P0847) GARFIELD, JAMES 274 REMINGTO
2. (P0850) JOHNSON, ANDREW 35 SHELBOU
3. (P0852) MADISON, JAMES 2244 E DEERFIE
4. (P0854) GRANT, ULYSSES 431 SYCAMORE
5. (D0900) GRANT, ULYSSES RIDDLE MEMOI
6. (D0900) MADISON, JAMES RIDDLE MEMOF
7. (D0900) JOHNSON, ANDREW RIDDLE MEM
8. (D0900) GARFIELD, JAMES RIDDLE MEMOI
Totals
Distance: 12.2 mile(s)
Time: 0 hr(s), 19.39 min. (= 0.323 hrs)
Close
(P0847) GARFIELD, JAMES 274 REMINGTON RD
(P0852) MADISON, JAMES 2244 E DEERFIELD DR
(P0854) GRANT, ULYSSES 431 SYCAMORE MILLS RD
(P0850) JOHNSON, ANDREW 35 SH
Delaware County, PA
Route is 12.2 miles for these 4 home pickups and drop-off at Riddle Memorial Hospital
Baltimore Pike
Sheffield Dr
(D0900) GARFIELD, JAMES RIDDLE MEMORIAL HOSPITAL

Apply Route Optimization



Route Optimization Schedule Savings


PtMSIS - Interactive Scheduler - Trips on 5/17/2007 - ABS
Trips to be Scheduled
Providers
Vehicle List
Trips for Vehicle V01
The trip pickup times that are revised by optimization are highlighted. You can compare the Original Schedule time to the Scheduled time to see the changes.
Trip Optimization dialogue box shows the amount of miles saved from the optimization changes made in the schedule
Select OK to make the changes permanent, or cancel to undo the changes and return the schedule to the Original Scheduled Times.
Trip Optimization
Trips Optimized - Saved 2.8 miles
OK
Cancel



Trip Swapping

What is Trip Swapping?

Trip Swapping means to move an existing scheduled trip to a new vehicle in order to find better vehicle options for a trip you are trying to schedule

The "swap" creates a space for the new trip to be added to an existing Vehicle's schedule. The moved or swapped trip must also be scheduled on a different vehicle.

The net effect of the swap should be:

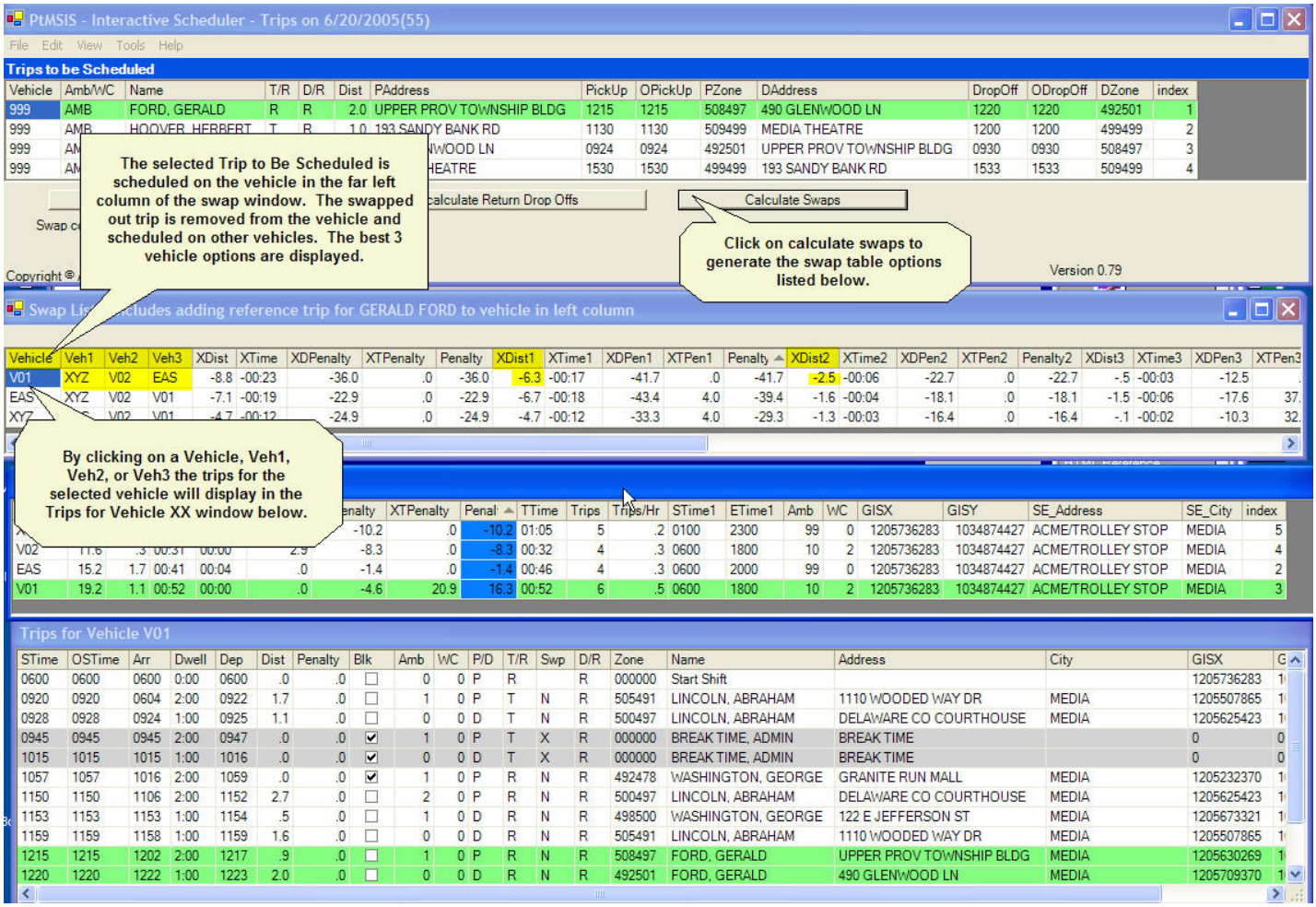
- On-Time Performance is maintained or improved for both trips
- Total vehicles miles added to both vehicle schedules is reduced

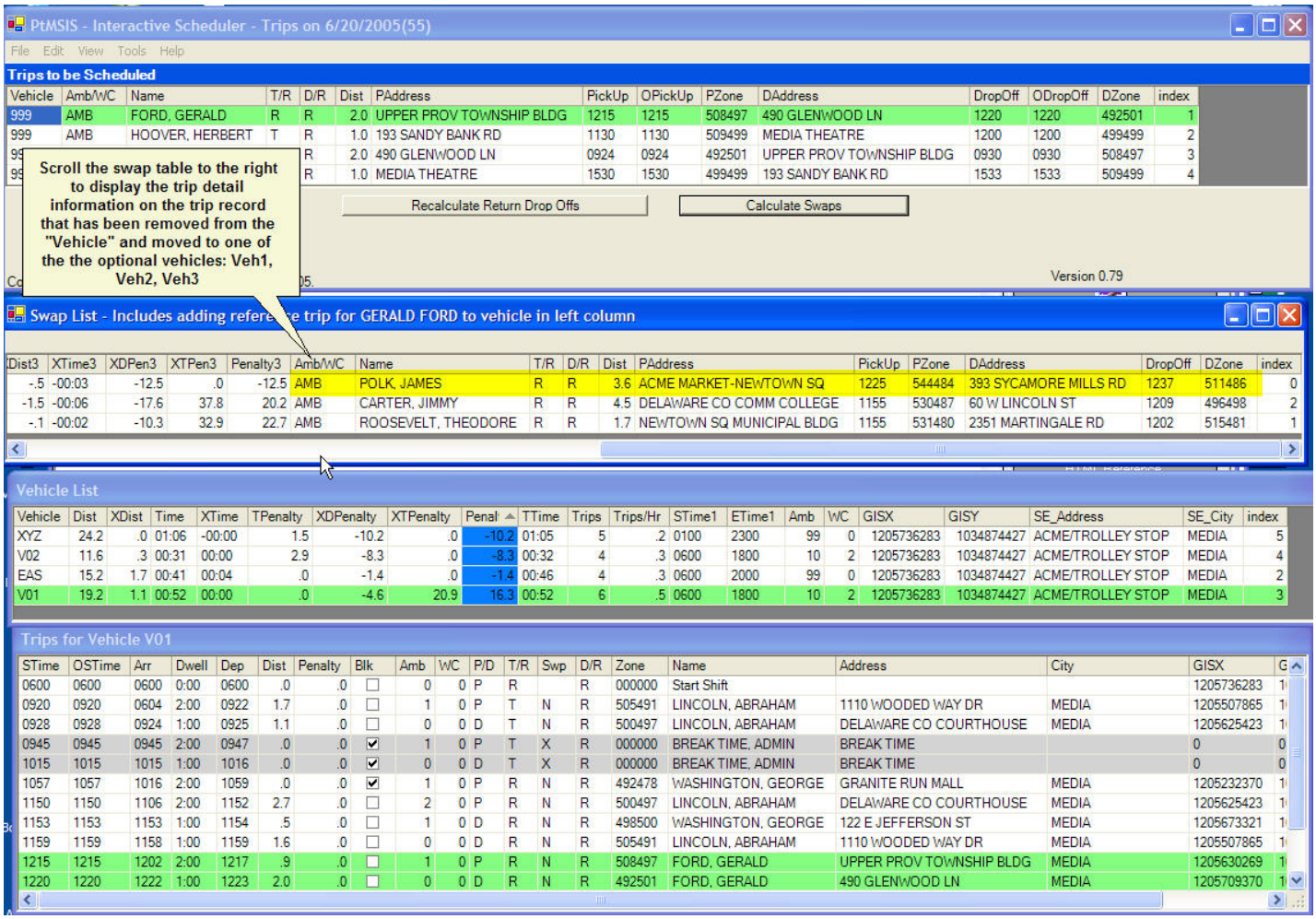
For a more detailed description of trip swapping procedures, refer to the help article on Trip Swapping.

Trip Swapping Procedures

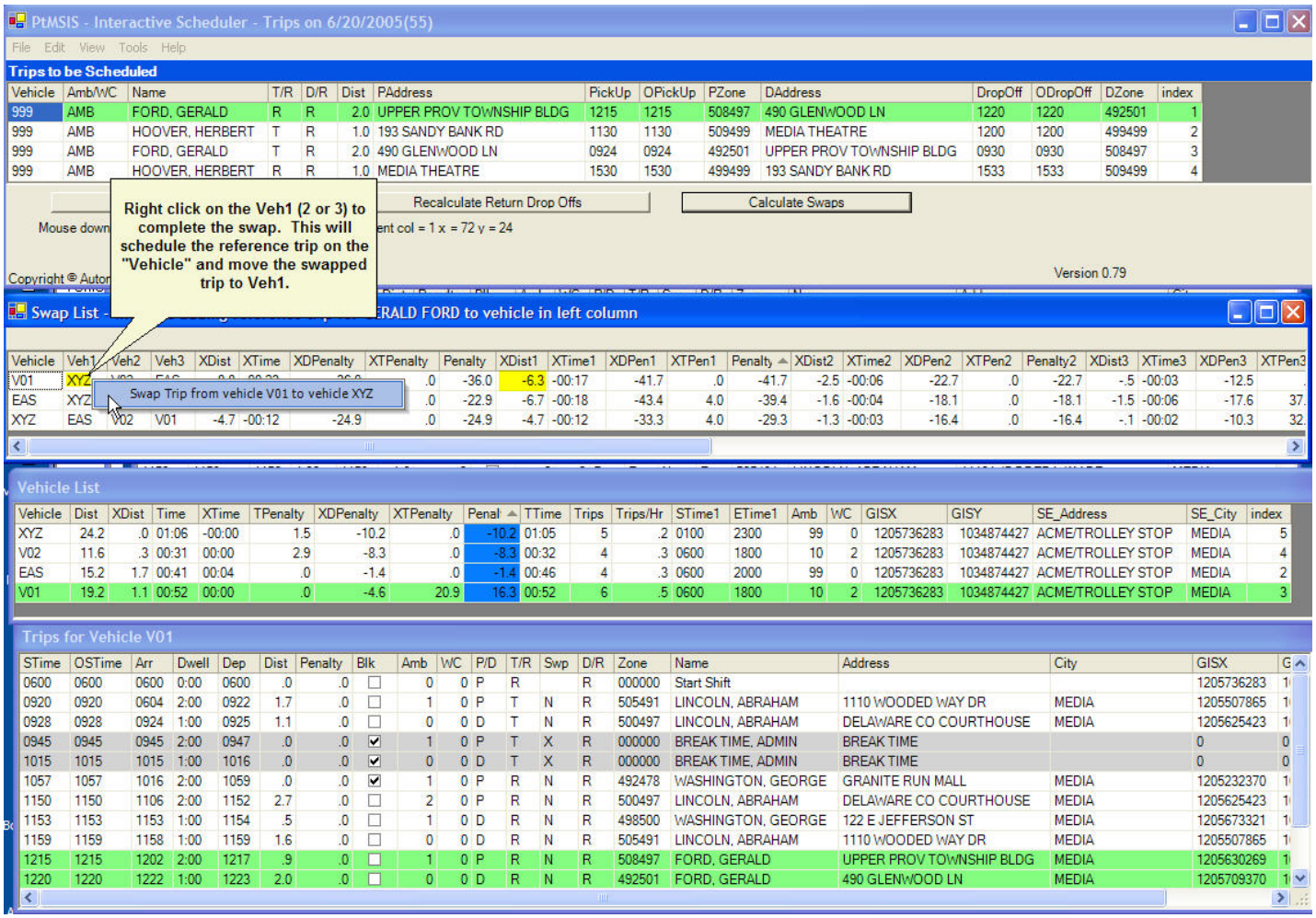
How to Review Swap Options

1. Select a reference trip to schedule in the "Trips to Be Scheduled Window"
2. Click on the "Calculate Swaps" button
3. Click on the "Vehicle Column" to review where the reference trip is being scheduled after the swap
4. Click on the "Veh1, Veh2, or Veh2" columns to view where the swapped trip will be scheduled





How to Make the Swap



Reviewing Both Trips Scheduled

PtMSIS - Interactive Scheduler - Trips on 6/20/2005(55)

File Edit View Tools Help

Trips to be Scheduled

Vehicle	Amb/WC	Name	T/R	D/R	Dist	PAddress	PickUp	OPickUp	PZone	DAddress	DropOff	ODropOff	DZone	index
999	AMB	HOOVER, HERBERT	T	R	1.0	193 SANDY BANK RD	1130	1130	509499	MEDIA THEATRE	1200	1200	499499	1
999	AMB	FORD, GERALD	T	R	2.0	490 GLENWOOD LN	0924	0924	492501	UPPER PROV TOWNSHIP BLDG	0930	0930	508497	2
999	AMB	HOOVER, HERBERT	R	R	1.0	MEDIA THEATRE	1530	1530	499499	193 SANDY BANK RD	1533	1533	509499	3

Remove Ref Trip | Recalculate Return Drop Offs | Calculate Swaps

Vehicle list clicked at 7/14/2005 11:42:50 PM Current row = 2 current cell = 0 event = System.EventArgs

Add reference trip for GERALD FORD at 12:15 to vehicle V01. Swap out trip for JAMES POLK at 12:25 to vehicle XYZ.

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Vehicle List

Vehicle	Dist	XDist	Time	XTime	TPenalty	XDPenalty	XTPenalty	Penal	TTime	Trips	Trips/Hr	STime1	ETime1	Amb	WC	GISX	GISY	SE_Address	SE_City	index
EAS	13.8	.0	00:37	00:00	.0	.0	.0	.0	00:37	3	.2	0600	2000	99	0	1205736283	1034874427	ACME/TROLLEY STOP	MEDIA	2
V01	10.4	.0	00:28	00:00	.0	.0	.0	.0	00:28	5	.4	0600	1800	10	2	1205736283	1034874427	ACME/TROLLEY STOP	MEDIA	3
V02	9.4	.0	00:25	00:00	2.9	.0	.0	.0	00:25	3	.3	0600	1800	10	2	1205736283	1034874427	ACME/TROLLEY STOP	MEDIA	4
XYZ	26.7	.0	01:12	00:00	1.5	.0	.0	.0	01:12	5	.2	0100	2300	99	0	1205736283	1034874427	ACME/TROLLEY STOP	MEDIA	5

Trips for Vehicle V01

The reference trip from the Trips to Be Scheduled has been scheduled on V01 and the swapped trip is now scheduled on XYZ.

STime	OSTime	Arr	Dwell	Dep	Dist	Penalty									Zone	Name	Address	City	GISX	GISY	index
0600	0600	0600	0:00	0600	.0										000000	Start Shift			1205736283	1034874427	
0920	0920	0604	2:00	0922	1.7										505491	LINCOLN, ABRAHAM	1110 WOODED WAY DR	MEDIA	1205507865	1034981921	
0928	0928	0924	1:00	0925	1.1										500497	LINCOLN, ABRAHAM	DELAWARE CO COURTHOUSE	MEDIA	1205625423	1034883110	
0945	0945	0945	2:00	0947	.0										000000	BREAK TIME, ADMIN	BREAK TIME		0	0	
1015	1015	1015	1:00	1016	.0										000000	BREAK TIME, ADMIN	BREAK TIME		0	0	
1057	1057	1016	2:00	1059	.0										492478	WASHINGTON, GEORGE	GRANITE RUN MALL	MEDIA	1205232370	1034728733	
1150	1150	1106	2:00	1152	2.7	.0		2	0	P	R	N	R		500497	LINCOLN, ABRAHAM	DELAWARE CO COURTHOUSE	MEDIA	1205625423	1034883110	
1153	1153	1153	1:00	1154	.5		☐	1	0	D	R	N	R		498500	WASHINGTON, GEORGE	122 E JEFFERSON ST	MEDIA	1205673321	1034834132	
1159	1159	1158	1:00	1159	1.6	.0	☐	0	0	D	R	N	R		505491	LINCOLN, ABRAHAM	1110 WOODED WAY DR	MEDIA	1205507865	1034981921	
1215	1215	1202	2:00	1217	.9	.0	☐	1	0	P	R	N	R		508497	FORD, GERALD	UPPER PROV TOWNSHIP BLDG	MEDIA	1205630269	1035039085	
1220	1220	1222	1:00	1223	2.0	.0	☐	0	0	D	R	N	R		492501	FORD, GERALD	490 GLENWOOD LN	MEDIA	1205709370	1034718746	
1800	1800	1800	0:00	1800	.0	.0	☐	0	0	D	R		R		000000	End Shift			1205736283	1034874427	

Trips for Vehicle XYZ

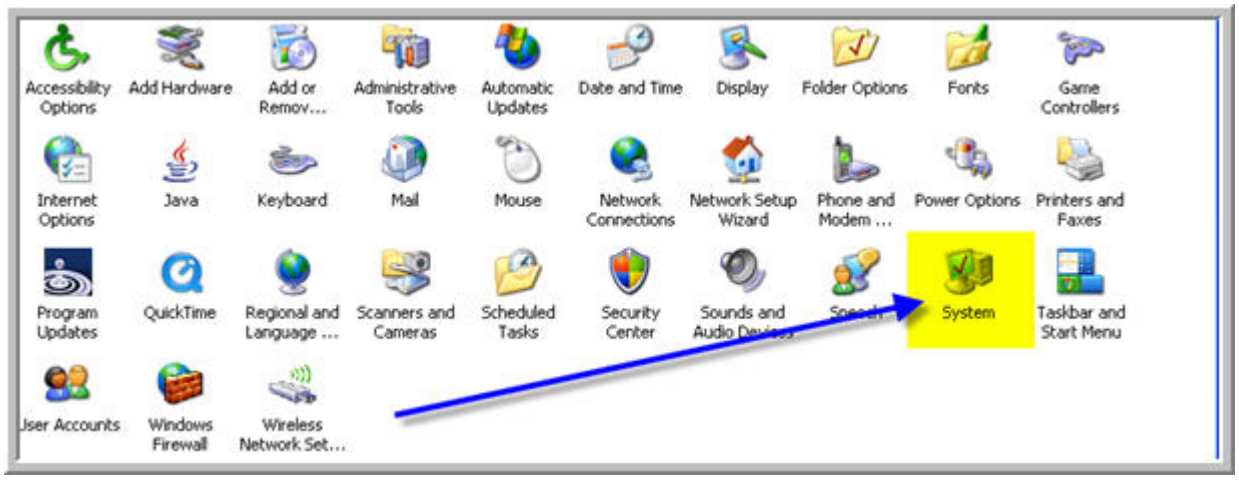
STime	OSTime	Arr	Dwell	Dep	Dist	Penalty	Blk	Amb	WC	P/D	T/R	Swp	D/R	Zone	Name	Address	City	GISX	GI
0100	0100	0100	0:00	0100	.0	.0	☐	0	0	P	R		R	000000	Start Shift			1205736283	10
0832	0832	0102	2:00	0834	.8	.0	☐	1	0	P	T	N	R	496498	CARTER, JIMMY	60 W LINCOLN ST	MEDIA	1205638065	10
0848	0848	0843	2:00	0850	3.5	.0	☐	2	0	P	T	N	R	515481	ROOSEVELT, THEODORE	2351 MARTINGALE RD	MEDIA	1205297809	10
0900	0900	0854	1:00	0855	1.7	.0	☐	1	0	D	T	N	R	531480	ROOSEVELT, THEODORE	NEWTOWN SQ MUNICIPAL BLDG	NEWTOWN SQUARE	1205284866	10
0905	0905	0857	1:00	0858	.7	.0	☐	0	0	D	T	N	R	530487	CARTER, JIMMY	DELAWARE CO COMM COLLEGE	MARPLE	1205422814	10
0922	0922	0910	2:00	0924	4.5	.0	☐	1	0	P	T	N	R	498500	WASHINGTON, GEORGE	122 E JEFFERSON ST	MEDIA	1205673321	10
0930	0930	0931	1:00	0932	2.7	1.5	☐	0	0	D	T	N	R	492478	WASHINGTON, GEORGE	GRANITE RUN MALL	MEDIA	1205232370	10
1155	1155	0943	2:00	1157	4.1	.0	☐	1	0	P	R	N	R	531480	ROOSEVELT, THEODORE	NEWTOWN SQ MUNICIPAL BLDG	NEWTOWN SQUARE	1205284866	10
1202	1202	1201	1:00	1202	1.7	.0	☐	0	0	D	R	N	R	515481	ROOSEVELT, THEODORE	2351 MARTINGALE RD	MEDIA	1205297809	10
1225	1225	1211	2:00	1227	3.2	.0	☐	1	0	P	R	N	R	544484	POLK, JAMES	ACME MARKET-NEWTOWN SQ	NEWTOWN SQUARE	1205359601	10
1234	1237	1236	1:00	1237	3.6	.0	☐	0	0	D	R	N	R	511486	POLK, JAMES	393 SYCAMORE MILLS RD	MEDIA	1205405502	10
2300	2300	2300	0:00	2300	.0	.0	☐	0	0	D	R		R	000000	End Shift			1205736283	10

Reports

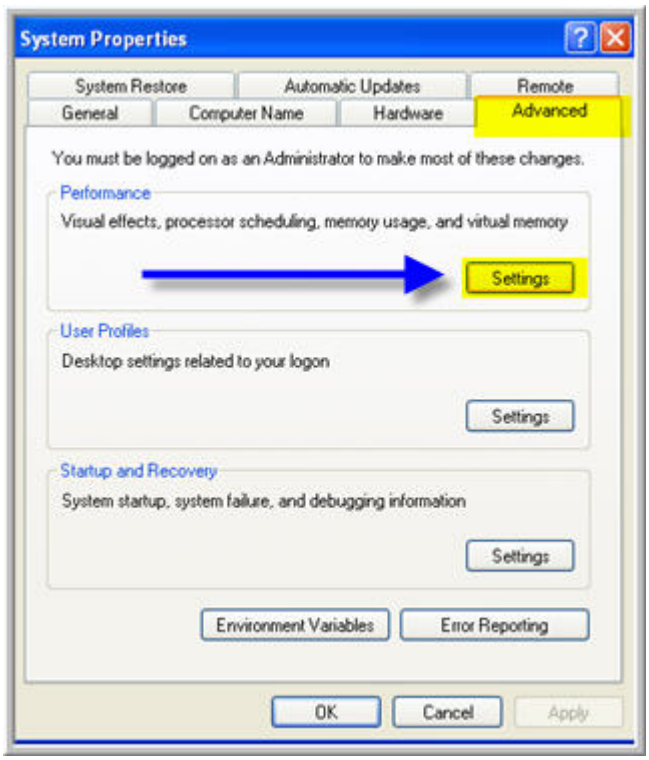
The Report Menu can be accessed from the menu bar of the Interactive Scheduler:

Increasing Windows Virtual Memory to Improve Reporting

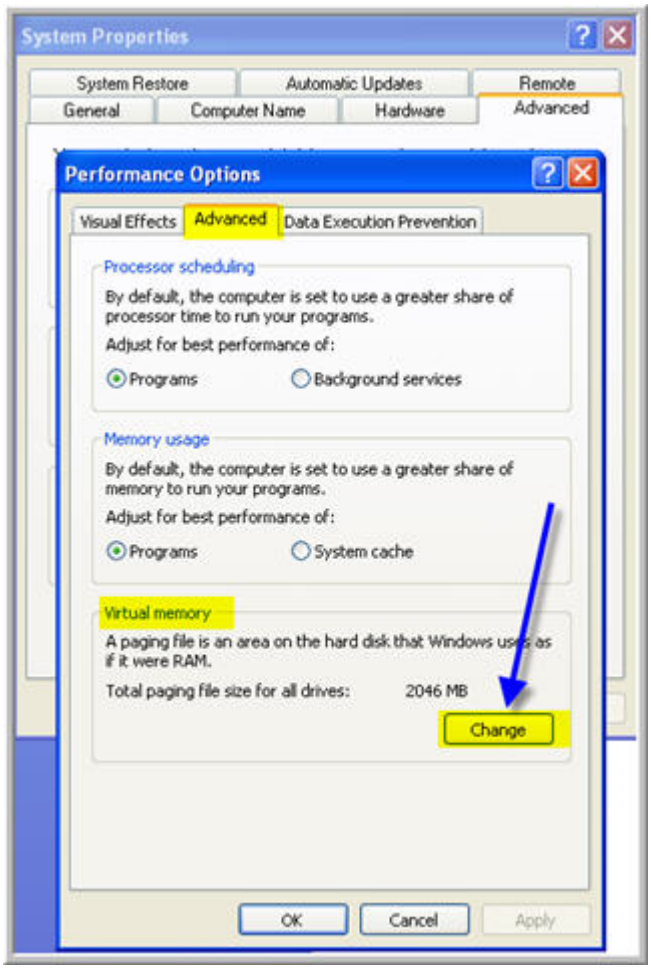
Go to your Windows Control Panel and Select the "System" option:



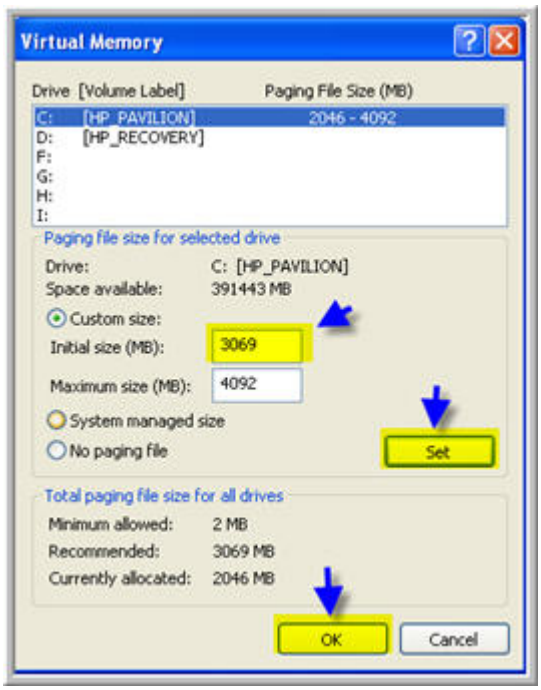
Click on the Advanced Tab and the select Performance Settings:



On the Performance Options window select the Advanced Tab and then select "Change" Virtual Memory.



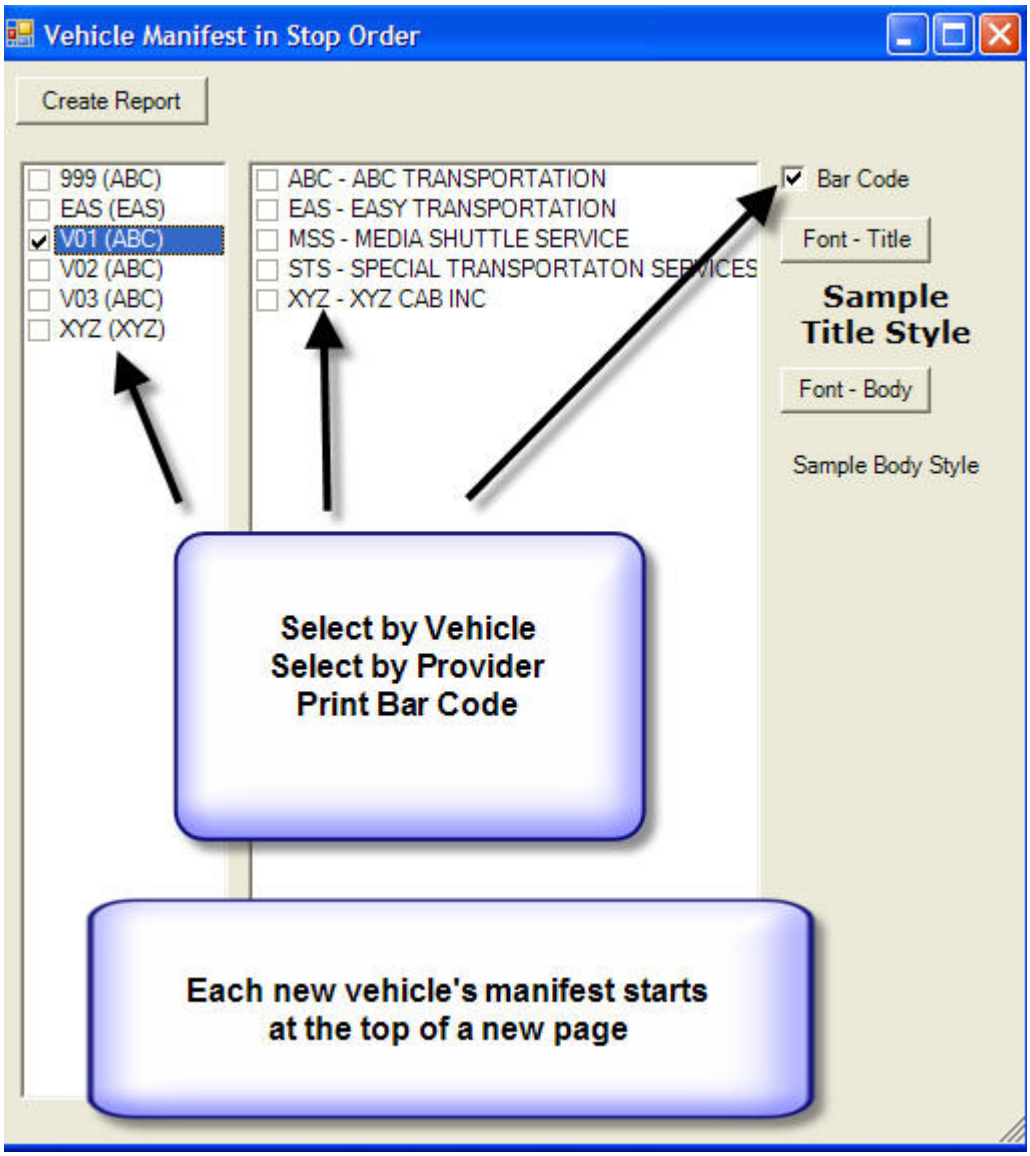
Increase your virtual memory, select Set, then select OK.



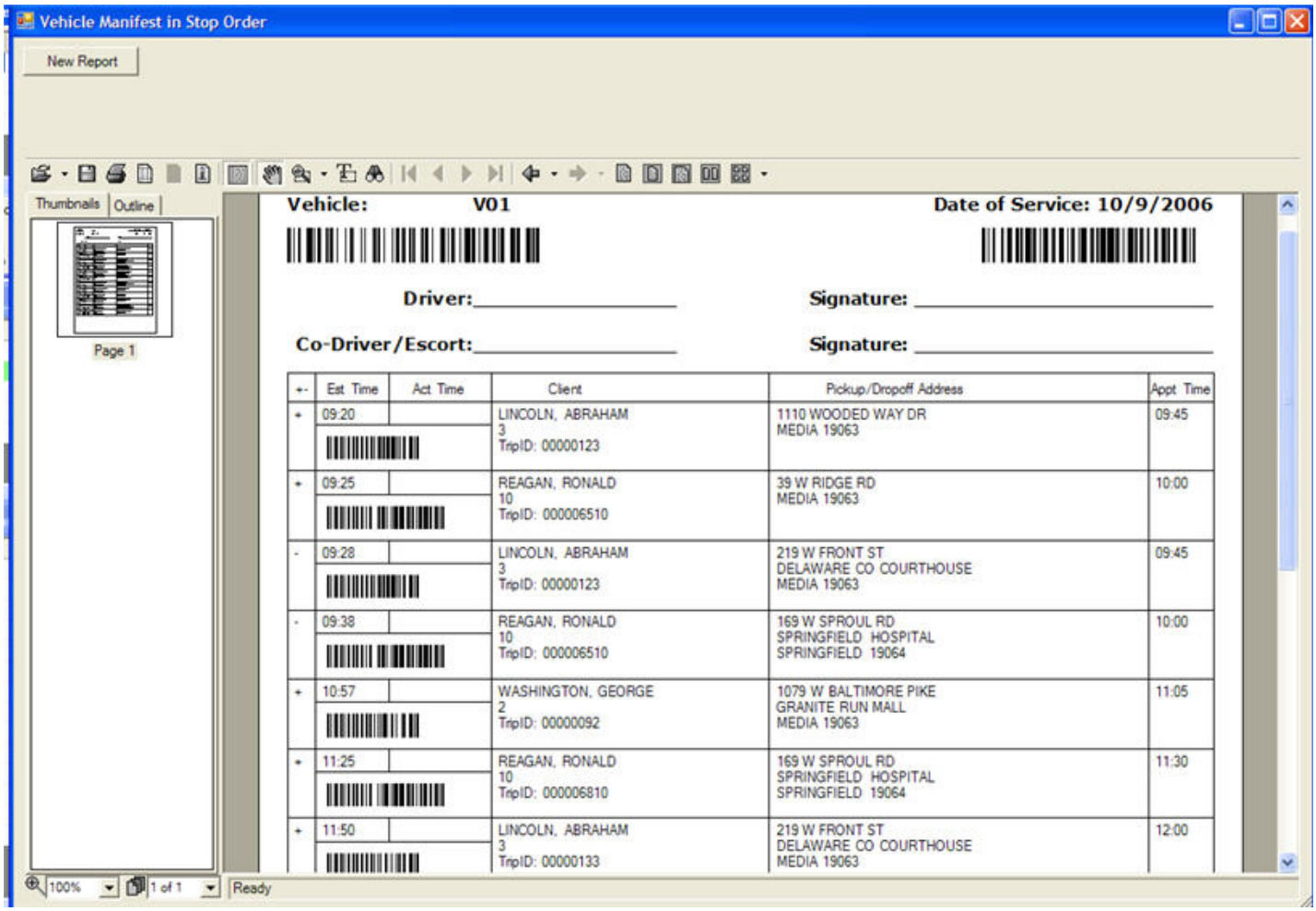
Vehicle Manifest in Stop Order

Select Vehicle Manifest in Stop Order from the Report Menu.

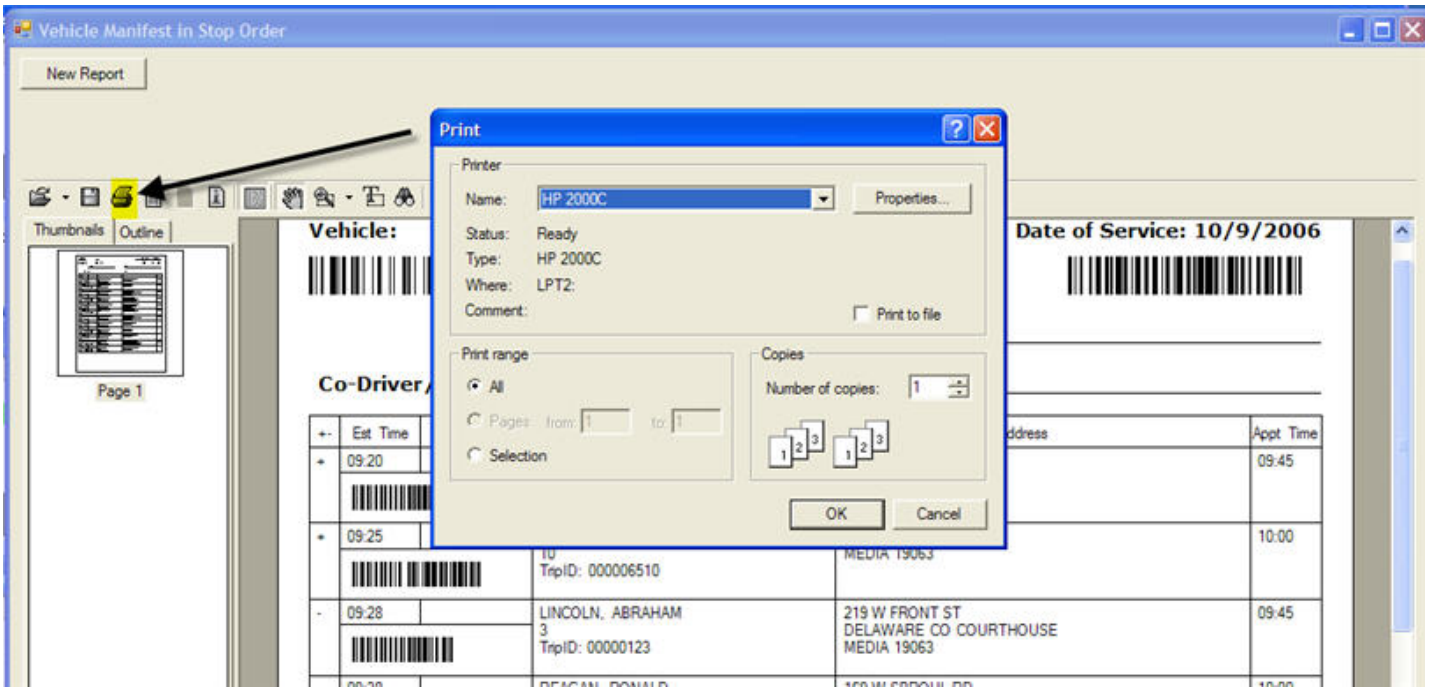
Choose the report options.



Click on Create Report to preview the report.



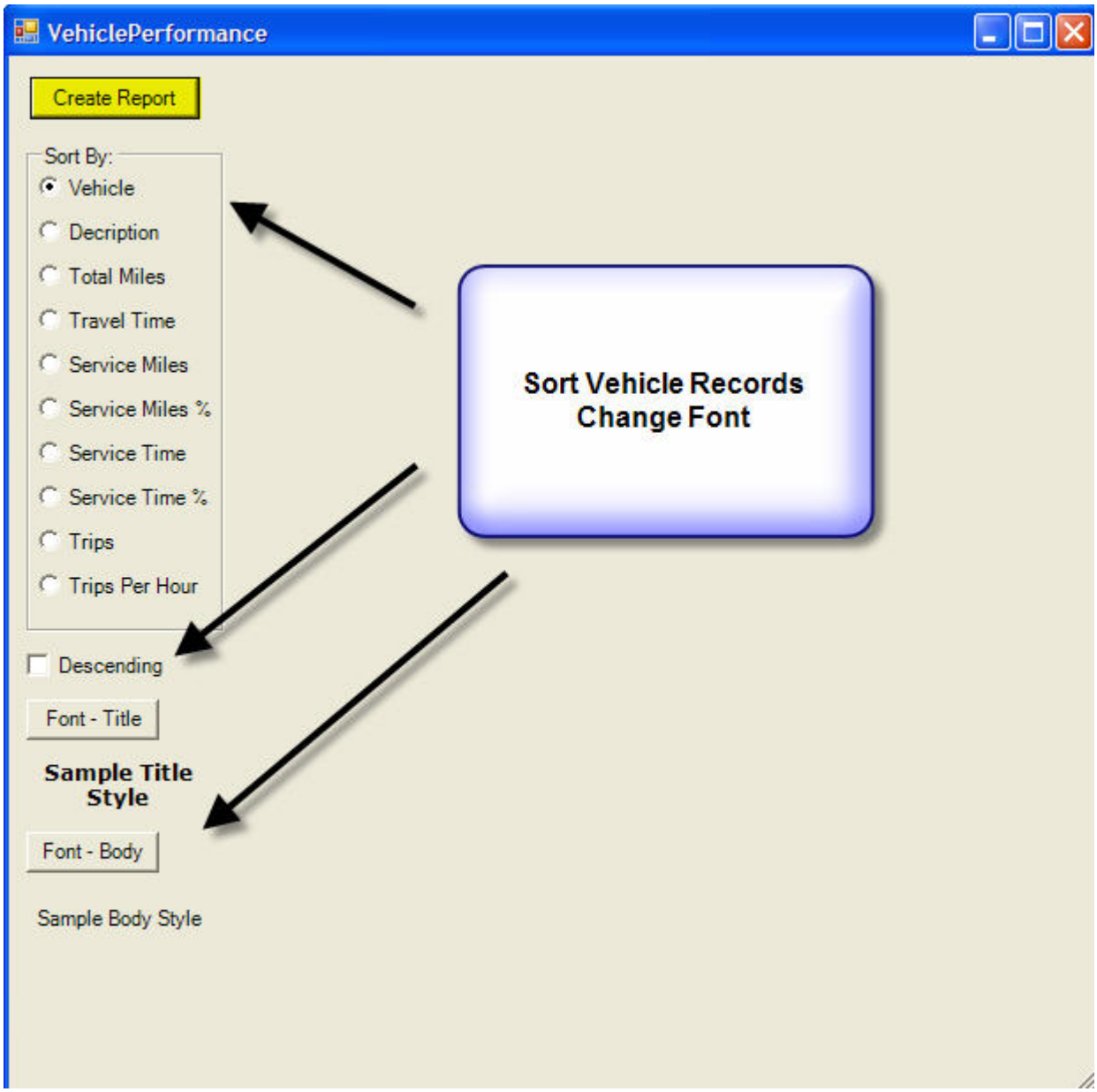
Select the print option from the tool bar to send the report to the printer.



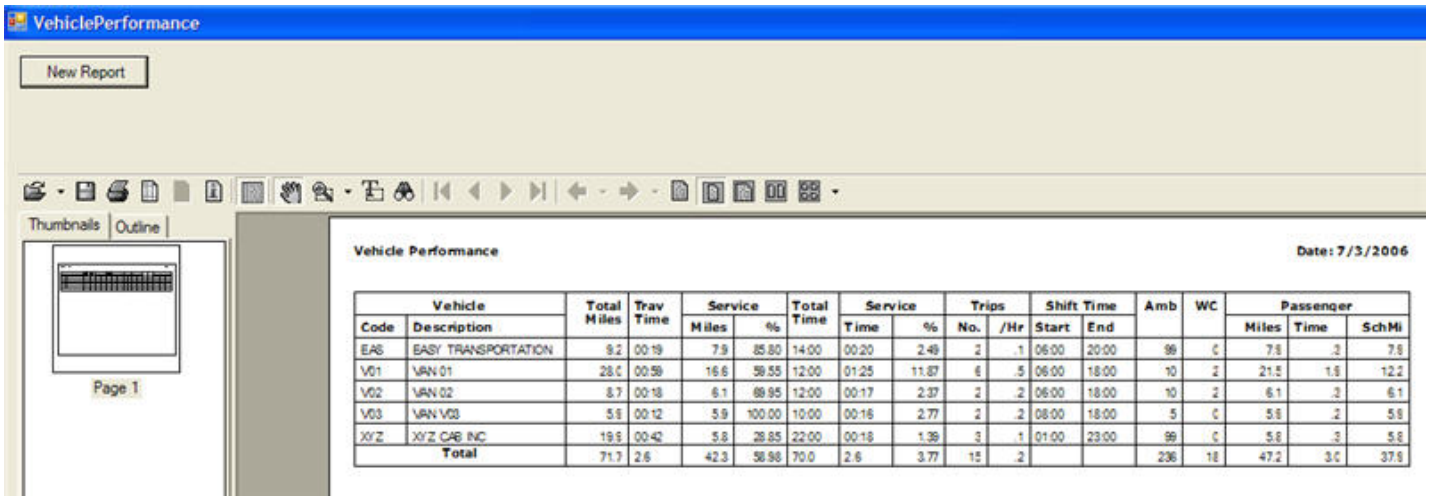
Vehicle Performance

Select Vehicle Performance from the Report Menu.

Choose the report options.

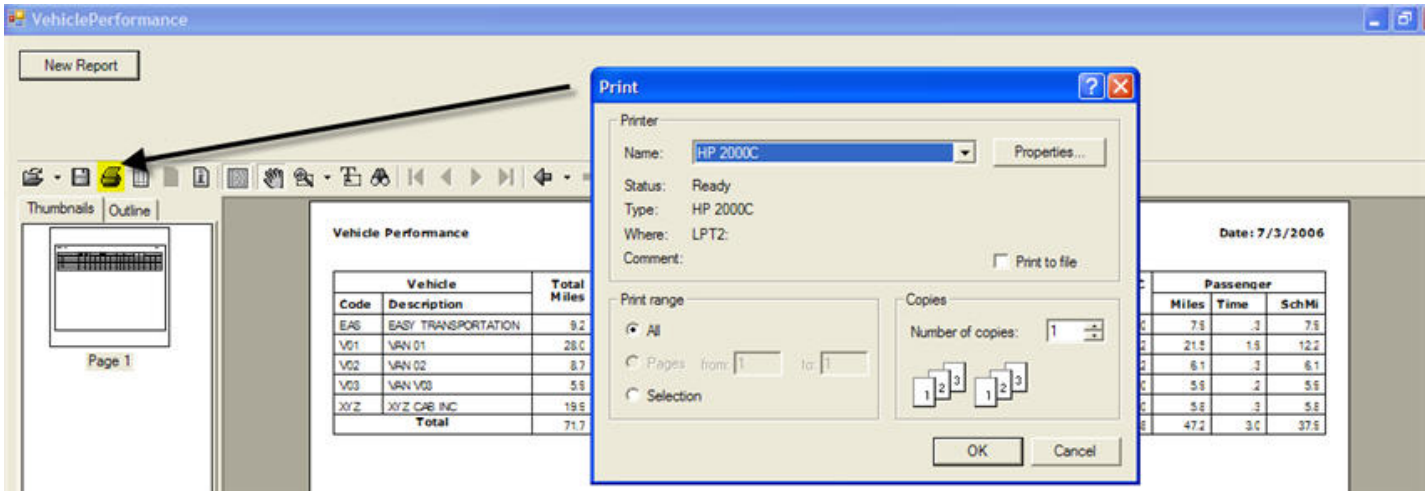

VehiclePerformance
Create Report
Sort By:
Vehicle
Decription
Total Miles
Travel Time
Service Miles
Service Miles %
Service Time
Service Time %
Trips
Trips Per Hour
Descending
Font - Title
Sample Title Style
Font - Body
Sample Body Style
Sort Vehicle Records
Change Font

Click on Create Report to preview the report.



Vehicle		Total Miles	Trav Time	Service		Total Time	Service		Trips		Shift Time		Amb	WC	Passenger		
Code	Description			Miles	%		Time	%	No.	/Hr	Start	End			Miles	Time	SchMi
EAS	EASY TRANSPORTATION	9.2	00:19	7.9	85.80	14:00	00:20	2.49	2	.1	06:00	20:00	99	0	7.9	.3	7.9
V01	VAN 01	28.0	00:59	16.6	59.55	12:00	01:25	11.87	6	.5	06:00	18:00	10	2	21.5	1.9	12.2
V02	VAN 02	8.7	00:18	6.1	69.95	12:00	00:17	2.37	2	.2	06:00	18:00	10	2	6.1	.3	6.1
V03	VAN V03	5.9	00:12	5.9	100.00	10:00	00:16	2.77	2	.2	08:00	18:00	5	0	5.9	.2	5.9
XYZ	XYZ CAB INC	19.9	00:42	5.8	28.85	22:00	00:18	1.39	3	.1	01:00	23:00	99	0	5.8	.3	5.8
Total		71.7	2.6	42.3	58.98	70.0	2.6	3.77	15	.2			236	18	47.2	3.0	37.9

Select the print option from the tool bar to send the report to the printer.



Vehicle Manifest

The Vehicle Manifest report is a highly customizable report. Users can select fields to include, display regions to include or exclude, and font types and size for each of 3 different report regions. There is even an option to select and display a company logo in the top left corner of the report.

Users selections can be saved to a customization report file allowing the option of developing multiple display formats for this report.

Sample Report

PtMSIS Interactive Scheduler **Vehicle A01** **Vehicle Manifest Report** **Trip Date: 10/22/2007**

Vehicle A01 *Start Time:* _____ *Stop Time:* _____
Start Miles: _____ *Stop Miles:* _____
Actual Vehicle _____ *Deadhead Hours:* _____ *Deadhead Miles:* _____
Driver ID: _____ *Gls Gas Purchased:* _____ *Purchase Price:* _____

I certify that the following trips were completed on this date, with the exception of those marked as cancelled or as no-shows.

Driver's Signature: _____

Vehicle A01					ABC - ABC TRANSPORTATION	
Status	Trip Type	Name	Pick Up		Drop Off	
			Time	Place	Time	Place
	TAMB ID#: 11 RV: A01	JOHNSON, ANDREW Sign: _____	08:30	35 SHELBOURNE RD, SPRINGFIELD, 19064 Phone: Odometer ON: _____	09:00	2600 W9TH ST, CROZER CHESTER MED CENTER, CHESTER 19013 Odometer OFF: _____
	TAMB ID#: 7 RV: A01	HOOVER, HERBERT Sign: _____	08:45	193 SANDY BANK RD, MEDIA, 19063 Phone: (610)555-9999 Odometer ON: _____	09:00	2600 W9TH ST, CROZER CHESTER MED CENTER, CHESTER 19013 Odometer OFF: _____
	TAMB ID#: 9 RV: A01	JEFFERSON, THOMAS Sign: _____	08:50	86 E5TH ST, MEDIA, 19063 Phone: (610)555-2221 Odometer ON: _____	09:00	2600 W9TH ST, CROZER CHESTER MED CENTER, CHESTER 19013 Odometer OFF: _____
	RAMB ID#: 10 Ag: MED	JEFFERSON, THOMAS Sign: _____	11:00	2600 W9TH ST, CROZER CHESTER MED CENTER, CHESTER, 19013 Phone: (610)494-0700 Odometer ON: _____	11:15	86 E5TH ST, MEDIA, 19063 Phone: (610)555-2221 Odometer OFF: _____
	RAMB ID#: 8 $.00 Ag:	HOOVER, HERBERT Sign: _____	11:00	2600 W9TH ST, CROZER CHESTER MED CENTER, CHESTER, 19013 Phone: (610)494-0700 Odometer ON: _____	11:25	193 SANDY BANK RD, MEDIA, 19063 Phone: (610)555-9999 Odometer OFF: _____

Please write actual pick-up and drop-off times on the line below the printed times.

Page 1 of 6

PtMSIS Interactive Scheduler Vehicle A01 Vehicle Manifest Report Trip Date: 10/22/2007

continued

Vehicle A01					ABC - ABC TRANSPORTATION	
Status	Trip Type	Name	Pick Up		Drop Off	
			Time	Place	Time	Place
	RAMB ID#: 12 Ag MED	JOHNSON, ANDREW Sign: _____	11:00	2400 W 9TH ST, CROZER CHESTER MED CENTER, CHESTER, 19013 Phone: (610) 494-0700 Odometer ON: _____	11:30	35 SHELBOURNE RD, SPRINGFIELD, 19064 Phone: Odometer OFF: _____

Please write actual pick-up and drop-off times on the line below the printed times.

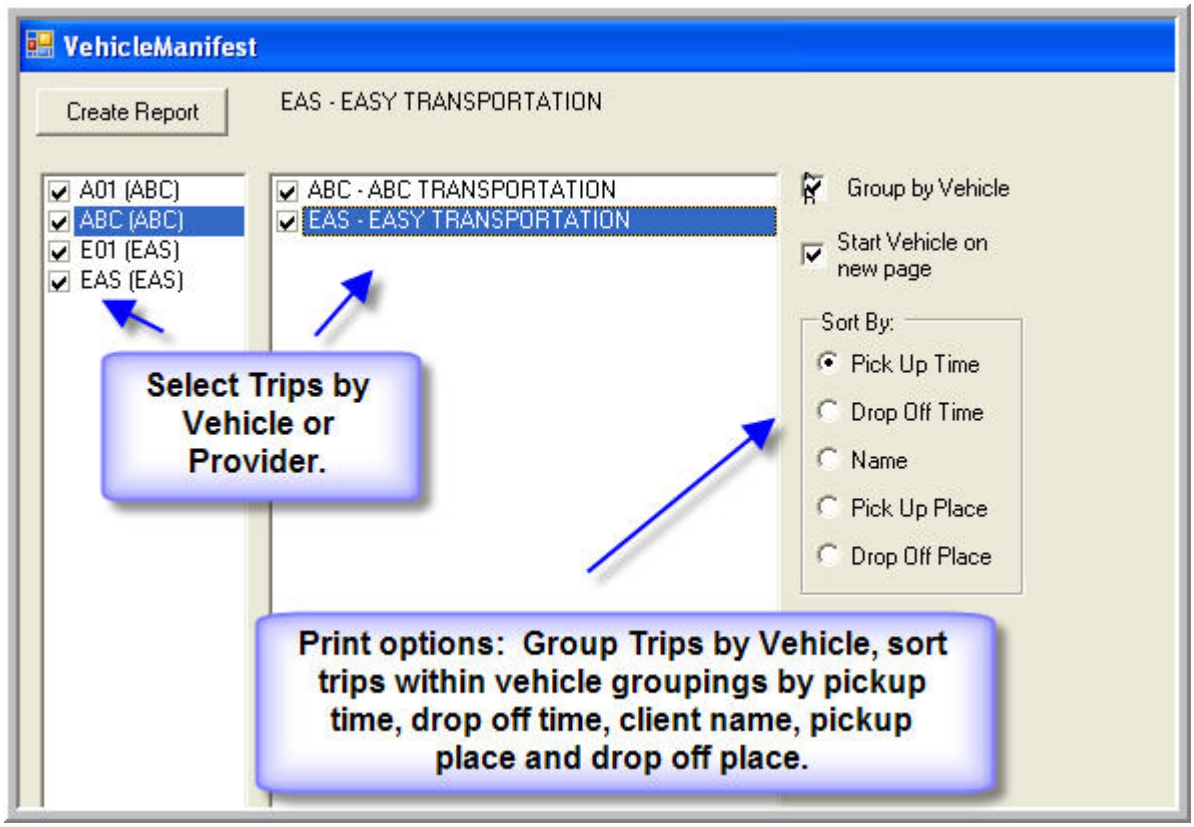
My signature acknowledges that NO incidents/accidents have gone unreported during my shift. If an incident/accident has occurred, the supervisor/dispatcher has written my statement into the log.

The report number is _____. If more than one incident/accident, the additional report numbers are listed here: _____ _____ _____

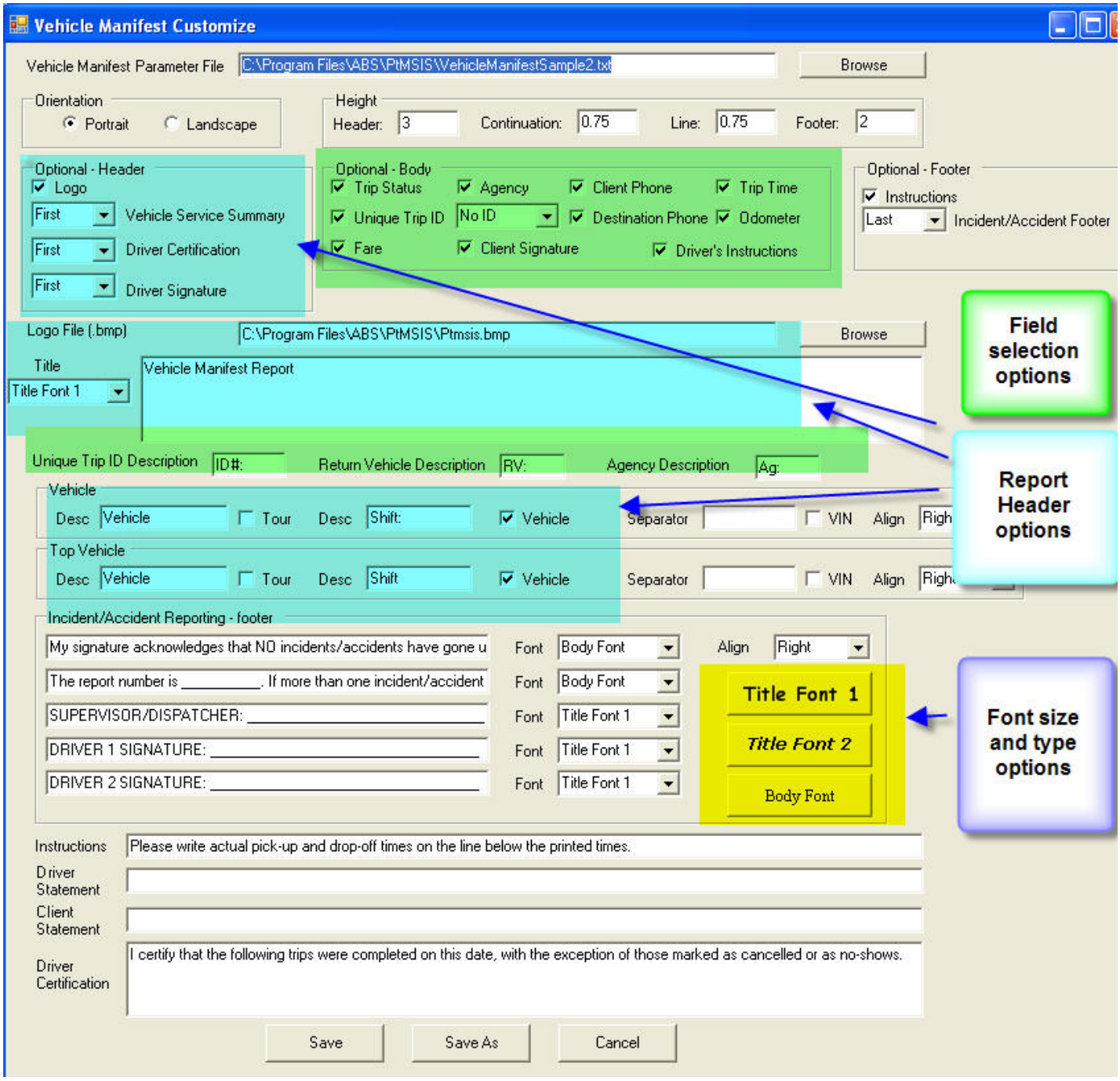
SUPERVISOR/DISPATCHER: _____

DRIVER 1 SIGNATURE: _____

Options


VehicleManifest
Create Report
EAS - EASY TRANSPORTATION
A01 (ABC)
ABC (ABC)
E01 (EAS)
EAS (EAS)
ABC - ABC TRANSPORTATION
EAS - EASY TRANSPORTATION
Group by Vehicle
Start Vehicle on new page
Sort By:
Pick Up Time
Drop Off Time
Name
Pick Up Place
Drop Off Place
Select Trips by Vehicle or Provider.
Print options: Group Trips by Vehicle, sort trips within vehicle groupings by pickup time, drop off time, client name, pickup place and drop off place.

Customization



Dispatcher's Report

The Dispatcher's Report is a highly customizable report. Users can select fields to include, and font types and size for each of 3 the report regions. There is even an option to select and display a company logo in the top left corner of the report.

Users selections can be saved to a customization report file allowing the option of developing multiple display formats for this report.

Sample Report

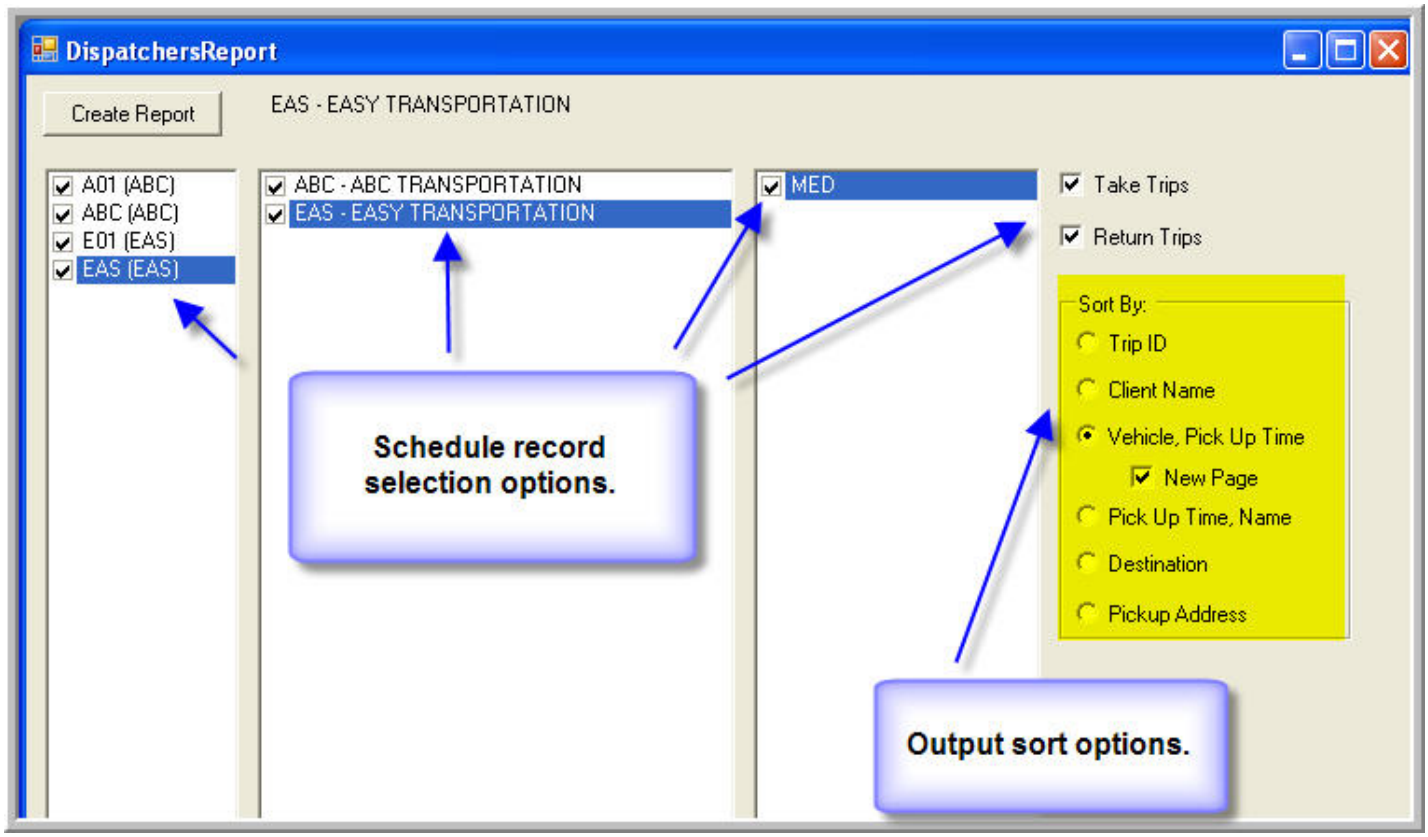
PtMSIS
Interactive Scheduler

DISPATCHER'S REPORT
Vehicle: A01

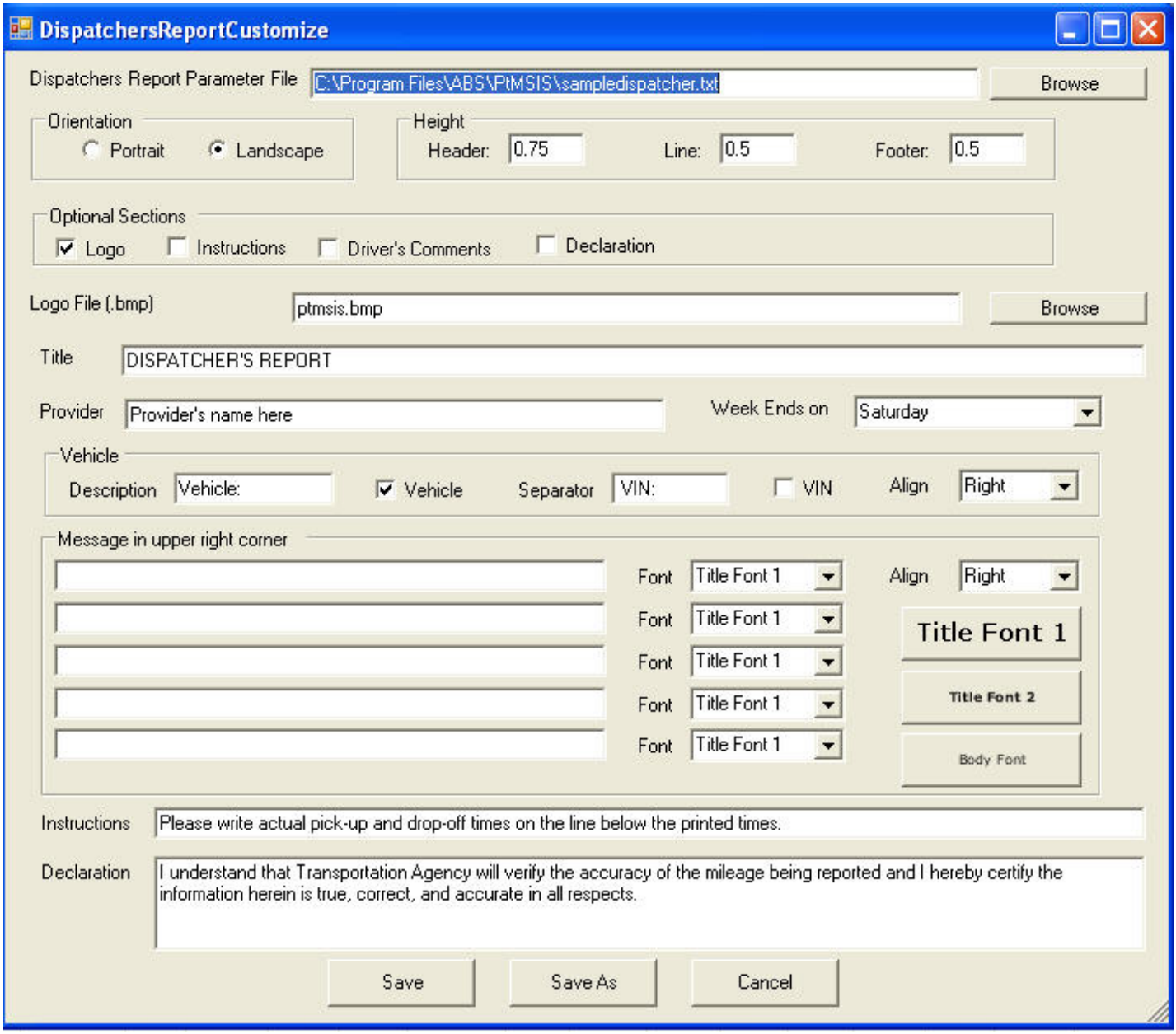
Trip Date: 10/22/2007

Line # Trip ID	Veh Agy	CltID wc-amb	LName D-R	FName Take-Return	PTime DTime	Pick Up	Drop Off	PZone DZone	Trip # Fare/Miles	Med ID Tripcode
1 11	A01 MED	28 AMB	JOHNSON R	ANDREW T	08:30 09:00	35 SHELBOURNE RD SPRINGFIELD 19064	CROZER CHESTER MED CENTER 2600 W 9TH ST CHESTER 19013	522515 508445	000047128 .00 / 0	MED
2 7	A01 MED	13 AMB	HOOVER R	HERBERT T	08:45 09:00	193 SANDY BANK RD MEDIA 19063	CROZER CHESTER MED CENTER 2600 W 9TH ST CHESTER 19013	499509 508445	000044913 .00 / 0	MED
3 9	A01 MED	6 AMB	JEFFERSON R	THOMAS T	08:50 09:00	86 E 5TH ST MEDIA 19063	CROZER CHESTER MED CENTER 2600 W 9TH ST CHESTER 19013	499502 508445	00004606 .00 / 0	MED
4 8	A01 MED	13 AMB	HOOVER R	HERBERT R	11:00 11:25	CROZER CHESTER MED CENTER 2600 W 9TH ST CHESTER 19013	193 SANDY BANK RD MEDIA 19063	508445 499509	000045413 .00 / 0	MED
5 10	A01 MED	6 AMB	JEFFERSON R	THOMAS R	11:00 11:15	CROZER CHESTER MED CENTER 2600 W 9TH ST CHESTER 19013	86 E 5TH ST MEDIA 19063	508445 499502	00004656 / 0	MED
6 12	A01 MED	28 AMB	JOHNSON R	ANDREW R	11:00 11:30	CROZER CHESTER MED CENTER 2600 W 9TH ST CHESTER 19013	35 SHELBOURNE RD SPRINGFIELD 19064	508445 522515	000047628 / 0	MED

Options


DispatchersReport
Create Report
EAS - EASY TRANSPORTATION
A01 (ABC)
ABC (ABC)
E01 (EAS)
EAS (EAS)
ABC - ABC TRANSPORTATION
EAS - EASY TRANSPORTATION
MED
Take Trips
Return Trips
Sort By:
Trip ID
Client Name
Vehicle, Pick Up Time
New Page
Pick Up Time, Name
Destination
Pickup Address
Schedule record selection options.
Output sort options.

Customization



ABS Support

ABS Support Options

- On-line Help
- Remote Desktop Support

On-Line Help

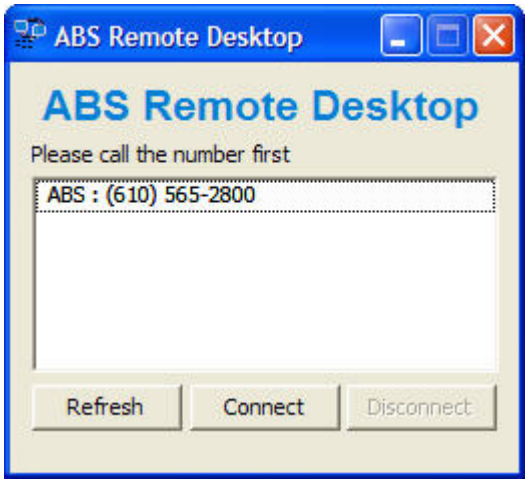
From the Help Menu select On-line Help.

The On-line Help link (PTMS IS Help Page) will connect you with the PTMSIS Help page where you can select help topic articles, or on-line help videos.

The ABS Support page that links to ABS on-line support services is available at www.abs-pa.com/Support/Support.htm

Remote Desktop Support

From the Help Menu select Remote Support.

You will need to contact ABS in advance to arrange for a Remote Desktop Support session.

Once the Remote Support selection is made a popup will appear on the screen. Highlight the ABS consultant's phone number and click connect. This will connect your workstation to an ABS support consultant where they will be able to view and run applications on your workstation.