PtMS Mobile

PtMS Mobile connects the PtMS Scheduling and Dispatching Software system with **Mobile Data Terminals** in vehicles.

PtMS Mobile utilizes the **API (Application Programming Interface) and Web Gateway service** provided by the MDT Vendor to allow PtMS to communicate with the MDTs.

Two primary communcation functions occur with PtMS Mobile:

Send Schedules To Vehicles:

PtMS Mobile sends schedules and schedule updates to the MDTs. Schedule updates can include changes in pickup times, drop times, destinations, pickup locations, reroutes (moving trip from one vehicle to another) and trip cancellations.

Receive Performance Data from Vehicles:

PtMS Mobile receives performance data from the vehicles which is used to update the PtMS schedule records with actual pickup times, actual drop times, odometer readings, trip status (cancel, noshow, completed trip), and fares collected.

PtMS Mobile Data Terminal units can be supplied by:



Teletrac (www.teletrac.net)

Advanced Color Touchscreen

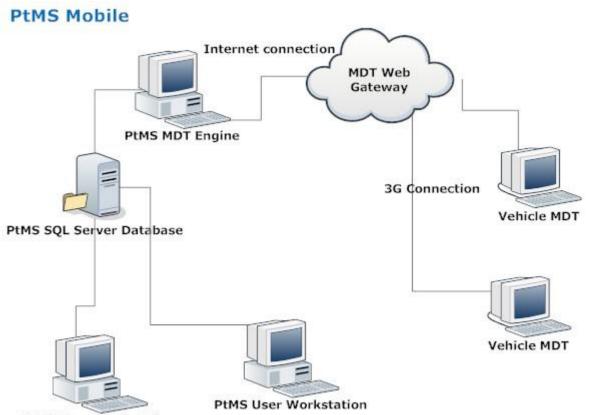


- Customizable map background color
- Easy installation / accessibility

GreyHawk Technologies



Or By Greyhawk Technologies - (<u>www.greyhawktech.com</u>)



PtMS User Workstation

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Benefits	

Monitoring Schedule Changes

The **PtMS SQL Database Audit table monitors all changes in the PtMS Schedule table**. SQL Server triggers cause this table to be updated each time a schedule record is changed. The PtMS MDT Engine monitors this table every 15 seconds for schedule record changes and sends these changes to the MDT Web Gateway service for transfer to a specific MDT assigned to a vehicle.

Audit Table Format:

As the PtMS user change schedule records in the schedule and dispatching screens, these changes are instantly reflected in the SQL Audit table:

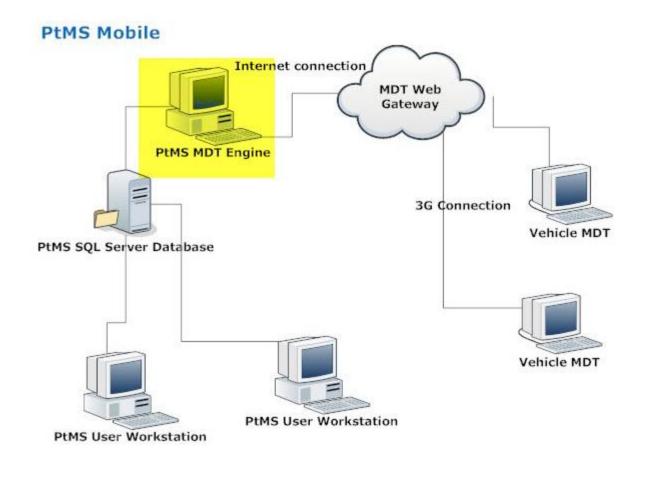
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Audit table updates are monitored every 15 seconds by the PtMS MDT Engine and sent to the correct vehicle MDT.

Monitoring Schedule Changes

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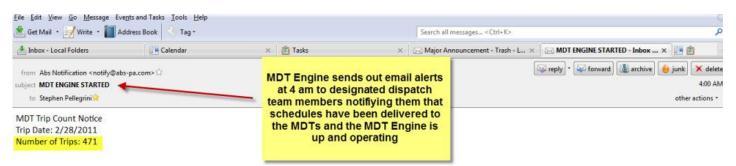
PtMS and MDT Data Exchange



The MDT Engine automatically starts up at 4 am and notifies dispatch staff by email alerts that schedules have been sent to the MDTs and the MDT Engine is operating.

PtMS and MDT Data Exchange

PtMS Mobile



Please note this email is used for notifications only please contact support@abs-pa.com with any issues

The MDT Engine sends schedule data - schedule updates, cancels or new trip records every 15 seconds to the MDT units. It receives schedule performance data from MDT every other 15 second interval.

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The MDT Engine tracks each driver login and logoff of the MDT units assigned to each vehicle.

PtMS and MDT Data Exchange

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PtMS Dispatch Real Time Updates

As vehicle drivers complete trip performance updates (trip status, pickup, drop-off, fare collection) on the MDT screen, the following data elements are sent back to the PtMS MDT Engine within a minute or so of completion where they instantly update the PtMS SQL database and are displayed on the PtMS Dispatch screen every 30 seconds.

- Actual Pickup Times
- Atual Drop Times
- Tip Status Changes
- Fares collected
- Odometer readings
- Schedule Updates changes in assignments vehicles or times as made by PtMS dispatchers/schedulers

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PtMS Dispatch Real Time Updates

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PtMS Dispatch Real Time Updates

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T	06:10	06:30	06:10	06:30		06:02	06:06		30 OLNEY ST	1 WASHINGTON ST	21362	21363	1	\$1.25	\$1.25	AMB	111
T	06:15	06:30	06:15	06:30		05:30	05:47		30 MIRTLE ST	1 WASHINGTON ST	21356	21360	1	\$1.25	\$1.25	AMB	114
т	06:30	06:45	06:30	06:45		06:33	06:47	<	546 SOUTH STREET EAST	1 WASHINGTON ST	21367	21371	6	\$1.25	\$1.25	WC	111
T	07:20	08:20	07:15	08:20		07:42	08:12	2	512 W BRITANNIA ST	979 SCHERSET AVE	21378	21386	7	\$1.25	\$1.25	AMB	100
T	07:40	08:20	07:40	08:20		07:46	08:13	1	50 HIGHLAND ST	979 SCHERSET AVE	21379	21386	4	\$1.25	\$1.25	AMB	100
T	07:45	08:10	07:45	08:20		07:43	08:13	Blocked	50 HIGHLAND ST	979 SCMERSET AVE	21378	21386	-4-	\$1.25	\$1.25	AND	100
т	07:50	08:20	07:55	08:20		08:07	08:12		31 SOUTH ST	979 SCHERSET AVE	21384	21386	2	\$1.25	\$1.25	AND	100
T	09:00	09:15	09:00	09:15		88:55	09:14	n	66 WALKER ST	9 LEONARD ST	21392	21400	8	\$1.25	\$1.25	AMB	111
-	09:30	09:45	09:30	09:45		09:26	09:59		30 OLNEY ST	416 BROADWAY	21401	21410	4	\$1.25	\$1.25	AIG	100
R	10:30	10:45	09:40	10:00		09:35	09:41	3	167 BROADWAY	8 CORAM ST	21403	21403	1	\$1.25	\$1.25	AIG	100
R	10:30	10:45	09:40	10:00		09:36	09:41	3	167 BROADWAY	8 CORAM ST	21403	21403	1	\$1.25	\$1.25	AND	100
R	10:30	10:45	09:40	10:00		09:16	09:22		167 BROADWAY	10 DAK ST	21400	21401	6	\$1.25	\$1.25	AMB	113
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MDT GPS Tracking and Dispatch

PtMS Mobile capitalizes on the GPS tracking, fleet managent and dispatch messaging features of the MDT system.

Teletrac Fleet Management



To view additional information on Teletrac's GPS tracking features click here.

To view additional information on Teletrac's MDT in vehicle unit click here.

Benefits

Here are a few of the many benefits of PtMS Mobile:

1. Eliminate Trip Verification.

No more reconciling driver manifests with the trip verification screen inputing data. Trips are automatically verified as the trips are updated from the MDTs. This feature alone should save most mid size PtMS users from 1/2 to 1 full FTE per year.

2. Accurate Trip Performance Reporting.

PtMS Mobile updates all your schedule records with actual pickup times, drop times, trip status, fares collected and odometer readings. This iinformation is accuretely recorded by PtMS Mobile. Most actual pickup and drop time data reported by drivers will likely have a significant amount of error - this feature completely eliminates the reporting errors.

3. Allows dispatchers to reroute trips and redeploy vehicles instantly to maximuze fleet efficiency.

Without PtMS Mobile most schedule changes made are minimal due to the time in takes to complete rerouting instructions via radio.

4. Improve fleet safety by drastically reducing radio chatter.

Since schedule changes can be made directly over the MDT, voice traffic is reduced. MDT messaging system further reduces the need for voice communications. Less radio chatter less driver distractions.

5. GPS tracking and supervision of drivers.

MDT vendor such as Teletrac provide this feature which allows dispatchers to monitor driver performance such as staying within legal speed limits and staying within designated service area.