

PtMS Mobile Database Specifications

(Revised 06/15/09)

The PtMS Mobile data specifications deal with exchange of information between the PtMS for Windows database and the MDT system residing in the users vehicles. A sql database called "ptmsmobile" is installed on the PtMS file server. This database can be accessed by the MDT interface software using a DSN connection.

Table data will be maintained for X number of days (where X is a setup parameter set by the PtMS Mobile system manager) and then archived and removed from the tables below.

The **Mobile_GPS table** will only be receiving data from the MDT units. PtMS Mobile applications software will use this data to display active vehicle movement for the dispatcher using the Streets mapping software GPS functions. Dispatchers will be able to view vehicle movement for selected or all vehicles as needed.

The **Mobile_ToMDT table** will be updated by the PtMS for Windows Scheduling and Dispatching software. Next day schedule records will be loaded to this table starting at a time set by the user in the PtMS Mobile application software parameter table. Once this time is reached all schedule record and any changes in scheduler records for the next day will be sent to this table. Each time a change occurs in a PtMS schedule record in PtMS, a new record will be added to Mobile_ToMDT table with the changed field information. All changes to schedule records occurring during the day of service (i.e. today) will be sent to this table.

The **Mobile_FromMDT table** will contain records with data updates received from the MDTs. Fields that are updated by the MDT are preceded by "MDT" in the field name column. Data received by the MDT will be used to update the PtMS Schedule records for dispatching. It will then be posted into the PtMS TripTransactions table and VehicleServicesSummary table for reporting purposes. Updates to the PtMS Dispatching module will allow dispatchers to monitor change in trip status, arrival times, departure times, etc as they are occurring and received from the MDTs.

The **Mobile_Comm table** will contain dispatch messages sent to the vehicle/MDT by the dispatcher and messages received from the dispatchers. The PtMS Dispatch application will have provide the dispatcher with the user interface to both send messages to the vehicle/MDT and view messages received from the vehicle/MDT.

Mobile_GPS	Contains the GPS data of the vehicle that will be captured at pre-determined intervals.
Mobile_ToMDT	Contains the trip information created by PtMS for Windows
Mobile_FromMDT	Contains the trip information created by the MDT
Mobile_Comm	Contains data for dispatch to vehicle and vehicle to dispatch messages

Database Name	Field Name	Field Type	Field Description
Mobile_GPS	GPS_Time	Date Time	GPS capture time
Mobile_GPS	GPS_Date	Date Time	GPS capture date
Mobile_GPS	GPS_Speed	Numeric	Vehicle speed capture
Mobile_GPS	GPS_Lat	Numeric	GPS latitude capture
Mobile_GPS	GPS_Lon	Numeric	GPS longitude capture

Mobile_GPS	GPS_VehID	Alpha Numeric	GPS vehicle ID capture
Mobile_GPS	ID	Auto Increment	SQL Record ID
Mobile_ToMDT	ClientID	Alpha Numeric	Client ID
Mobile_ToMDT	TripDate	Date Time	Date of trip
Mobile_ToMDT	Destination	Alpha Numeric	Destination Location
Mobile_ToMDT	Dgislatitude	Alpha Numeric	Destination Latitude
Mobile_ToMDT	Dgislongitude	Alpha Numeric	Destination Longitude
Mobile_ToMDT	DriverInstructions	Alpha Numeric	Driver's Instructions
Mobile_ToMDT	DropTime	Alpha Numeric	Schedule Drop Time
Mobile_ToMDT	Escort	Alpha Numeric	Escort with client
Mobile_ToMDT	Fare	Money	Fare Collected
Mobile_ToMDT	FirstName	Alpha Numeric	Client First Name
Mobile_ToMDT	ID	Auto Increment	SQL Record ID
Mobile_ToMDT	LastName	Alpha Numeric	Client Last Name
Mobile_ToMDT	Pgislatitude	Alpha Numeric	Pickup Latitude
Mobile_ToMDT	Pgislongitude	Alpha Numeric	Pickup Longitude
Mobile_ToMDT	PickupLocation	Alpha Numeric	Pickup Location
Mobile_ToMDT	PickupTime	Alpha Numeric	Scheduled Pickup time
Mobile_ToMDT	ScheduleRecordNumber	Integer	PTMS Trip Number
Mobile_ToMDT	Special	Alpha Numeric	Amb/Wc status
Mobile_ToMDT	Status	Alpha Numeric	Trip Status
Mobile_ToMDT	StatusReason	Alpha Numeric	Status Description
Mobile_ToMDT	TakeOrReturn	Alpha Numeric	Take or Return Trip
Mobile_ToMDT	Vehicle	Alpha Numeric	Vehicle ID
Mobile_ToMDT	PU_Address	Alpha Numeric	Pickup Address
Mobile_ToMDT	PU_City	Alpha Numeric	Pickup City
Mobile_ToMDT	PU_State	Alpha Numeric	Pickup State
Mobile_ToMDT	PU_Zipcode	Alpha Numeric	Pickup Zipcode
Mobile_ToMDT	Dest_Address	Alpha Numeric	Destination Address
Mobile_ToMDT	Dest_City	Alpha Numeric	Destination City
Mobile_ToMDT	Dest_State	Alpha Numeric	Destination State
Mobile_ToMDT	Dest_Zipcode	Alpha Numeric	Destination Zipcode
Mobile_FromMDT	MDT_Date	Date Time	MDT Entry Date
Mobile_FromMDT	MDT_DestArriveTime	Date Time	Dest arrival time
Mobile_FromMDT	MDT_DestDepartTime	Date Time	Dest departure time
Mobile_FromMDT	MDT_Fare	Money	Fare Collected
Mobile_FromMDT	MDT_Latitude	Floating Point	MDT Entry Latitude
Mobile_FromMDT	MDT_Longitude	Floating Point	MDT Entry Longitude
Mobile_FromMDT	MDT_Message	Alpha Numeric	Trip Message

Mobile_FromMDT	MDT_Note	Alpha Numeric	Trip Note
Mobile_FromMDT	MDT_OdometerOff	Floating Point	Mileage on departure
Mobile_FromMDT	MDT_OdometerOn	Floating Point	Mileage on arrival
Mobile_FromMDT	MDT_PuArriveTime	Date Time	PU Loc arrival time
Mobile_FromMDT	MDT_PuDepartTime	Date Time	PU Loc departure time
Mobile_FromMDT	MDT_Special	Alpha Numeric	Amb/Wc status
Mobile_FromMDT	MDT_Status	Alpha Numeric	Trip Status
Mobile_FromMDT	MDT_Time	Date Time	MDT Entry Time
Mobile_FromMDT	MDT_Vehicle	Alpha Numeric	Vehicle ID
Mobile_FromMDT	ClientID	Alpha Numeric	Client ID
Mobile_FromMDT	Date Time	Date Time	Date of trip
Mobile_FromMDT	Destination	Alpha Numeric	Destination Location
Mobile_FromMDT	Dgislatitude	Alpha Numeric	Destination Latitude
Mobile_FromMDT	Dgislongitude	Alpha Numeric	Destination Longitude
Mobile_FromMDT	DriverInstructions	Alpha Numeric	Driver's Instructions
Mobile_FromMDT	DropTime	Alpha Numeric	Schedule Drop Time
Mobile_FromMDT	Escort	Alpha Numeric	Escort with client
Mobile_FromMDT	Fare	Money	Fare Collected
Mobile_FromMDT	FirstName	Alpha Numeric	Client First Name
Mobile_FromMDT	ID	Numeric	"To MDT" Record ID(ID)
Mobile_FromMDT	LastName	Alpha Numeric	Client Last Name
Mobile_FromMDT	Pgislatitude	Alpha Numeric	Pickup Latitude
Mobile_FromMDT	Pgislongitude	Alpha Numeric	Pickup Longitude
Mobile_FromMDT	PickupLocation	Alpha Numeric	Pickup Location
Mobile_FromMDT	PickupTime	Alpha Numeric	Scheduled Pickup time
Mobile_FromMDT	ScheduleRecordNumber	Integer	PTMS Trip Number
Mobile_FromMDT	Special	Alpha Numeric	Amb/Wc status
Mobile_FromMDT	Status	Alpha Numeric	Trip Status
Mobile_FromMDT	StatusReason	Alpha Numeric	Status Description
Mobile_FromMDT	TakeOrReturn	Alpha Numeric	Take or Return Trip
Mobile_FromMDT	Vehicle	Alpha Numeric	Vehicle ID
Mobile_FromMDT	MobileRecID	Auto Increment	SQL Record ID
Mobile_ToMDT	PU_Address	Alpha Numeric	Pickup Address
Mobile_ToMDT	PU_City	Alpha Numeric	Pickup City
Mobile_ToMDT	PU_State	Alpha Numeric	Pickup State
Mobile_ToMDT	PU_Zipcode	Alpha Numeric	Pickup Zipcode
Mobile_ToMDT	Dest_Address	Alpha Numeric	Destination Address
Mobile_ToMDT	Dest_City	Alpha Numeric	Destination City
Mobile_ToMDT	Dest_State	Alpha Numeric	Destination State
Mobile_ToMDT	Dest_Zipcode	Alpha Numeric	Destination Zipcode
Mobile_ToMDT	Mobile_Proc	Binary	Record has been processed

Mobile_Comm	Comm_To	Alpha Numeric	Message sent to
Mobile_Comm	Comm_From	Alpha Numeric	Message from
Mobile_Comm	Comm_Date	Date Time	Date of message
Mobile_Comm	Comm_Time	Date Time	Time of message
Mobile_Comm	Comm_Message	Alpha Numeric	Message text
Mobile_Comm	ID	Auto Increment	SQL Record ID