TransitMaster™

Intelligent Transportation System

DataMart™ Data Dictionary

for Microsoft® SQL Server® Databases

Software Release 26.0.1.2 and Above
Part # 50M0034-002-B
September 30, 2010

Trapeze™ ITS

Reference and System Information

System Application	DataMart™ Data Dictionary – *Microsoft® SQL Server® Database*
Release	26.0.1.2 and Above
Date	September 30, 2010
Part #	50M0034-002-B

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About This Manual

This document catalogs the organization and contents of the TransitMaster DataMart database. Names and descriptions of the DataMart tables and columns are provided.

DISCLAIMER

If you create or change a view, you must allow schema alterations for tables contained within that view.

FACT TABLES

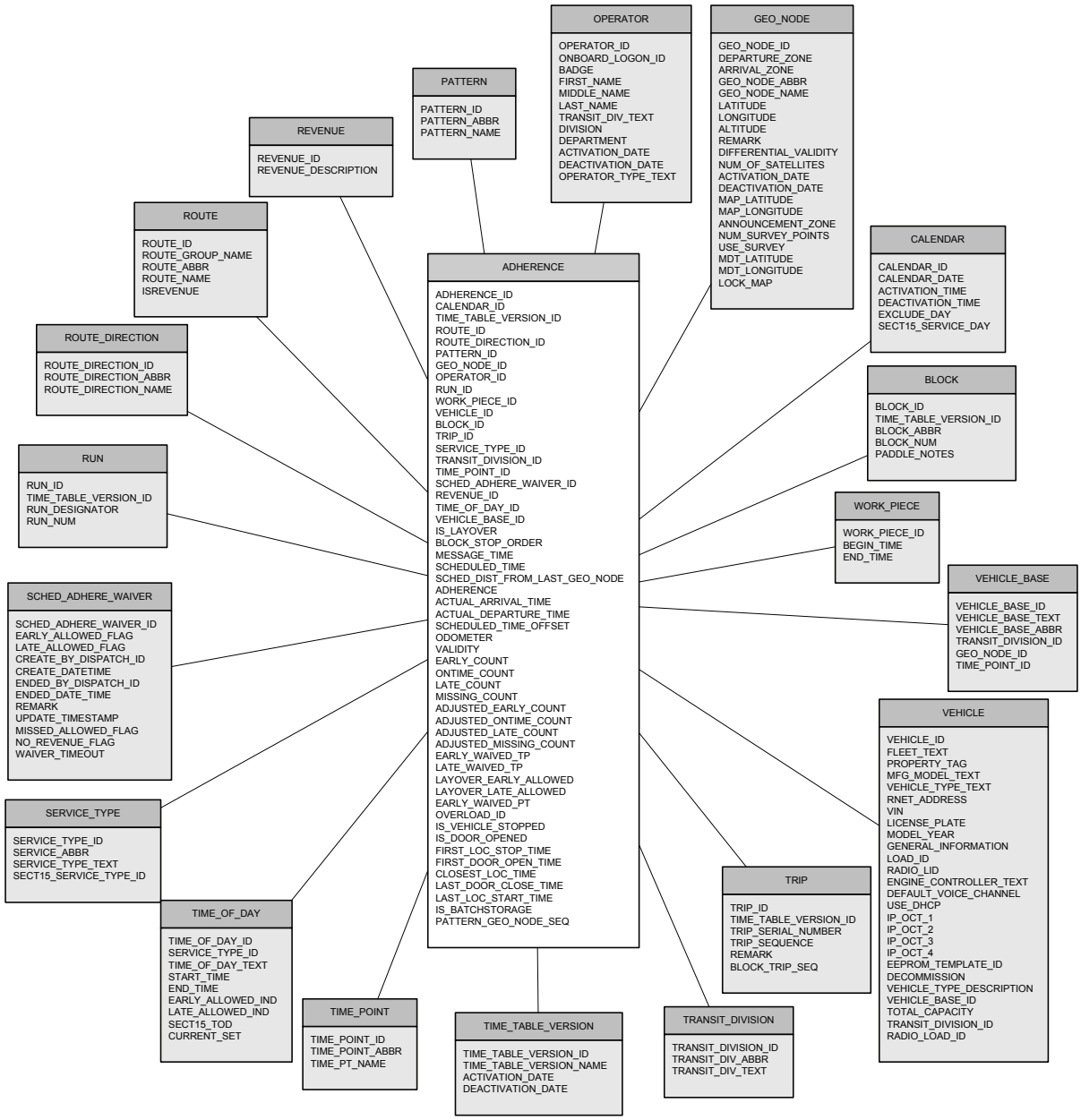
Table Name	Description
ADHERENCE	Data related to a vehicle's actual crossing time and scheduled crossing time at a given timepoint.
ADHERENCE_WAIVER_ACTIVITY	History of new and modified adherence waivers by dispatcher.
APC_VEHICLE	Identifies vehicles with automatic passenger counters.
BIKE_RACK_ACTIVITY	History of bike rack activity.
BLOCK_ACTIVITY	Records instances where the dispatcher "cancels" or "uncancels" a block.
CHARTER_MODE_HRS	Amount of time, in seconds, all vehicles spent in charter mode for a given service day.
COMM_ACK	Record of acknowledgement responses.
COMM_DESTINATION	History of all dispatch message destinations.
COMM_HISTORY	History of communications messages from and to vehicles (RTT, PRTT,COVERT, OVERT, MDT_CANNED, DISPATCH_CANNED, DISPATCH_TEXT, STVC).
COMM_VEHICLE_SNAPSHOT	History of vehicle status snapshots at the time of message broadcast.
COMMUNICATIONS_ACTIVITY	History of changes in the voice communication default values Audio Path, Audio Channel, and Timeout by dispatcher.
DAILY_MESSAGE_TEXT	History of daily messages.
DISPATCH_USER_ACTIVITY	History of dispatch user activity.
FAREBOX_ALARM	History of farebox alarms.
FLEET_ACTUAL_HOURS	Total hours and revenue hours of the given fleet.
FLEET_ACTUAL_DISTANCE	Total distance and revenue distance of the given fleet.
FLEET_PASSENGER_DISTANCE	Total passenger distance of the given fleet.
INCIDENT_HISTORY	Each entry defines a past incident from the TMBusOps incident queue. The record contains information about the incident, including details about event(s) that triggered the incident, users that worked on the incident and the action steps taken at what time.
INCIDENT_REPORT	History of incident report data.
LOGON	History of all scheduled logon and associated logoff activity.
LOGON_HISTORY	History of all logon attempts
MANUAL_PASSENGER_COUNT	History of all manual passenger counts sent from the vehicles.
MDT_SOFTWARE_VERSIONS	History of the mobile software versions by service date.
MECHANICAL_ALARM	History of mechanical alarms.
MECHANICAL_ALARM_ACTIVITY	History of when mechanical alarms or engine control messages were disabled (not sent) or enabled (sent) by dispatcher.
MESSAGE_ACTIVITY	Records when a message at Bus Ops is "addressed" or "deleted" by a dispatcher.

Fact Tables

Table Name	Description
MESSAGE_TYPE_ACTIVITY	Records when a message type is hidden or unhidden. Hidden messages are omitted from the queues in BusOps.
OFF_ROUTE	History of all off route messages.
OPERATOR_ACTIVITY	History of vehicle operator replacements by dispatcher.
OVERLOAD_ACTIVITY	History of overload vehicle assignments by dispatcher.
PARA_DISTANCE_HOURS	History of paratransit distance (miles/kilometers) and time by service day.
PARA_PASSENGER_COUNT	Passenger count history on paratransit vehicles for a given service day.
PARA_PASSENGER_DISTANCE	Distance (miles or kilometers) traveled on paratransit vehicles for a given service day.
PASSENGER_COUNT	History of passenger activity per vehicle for each scheduled stop. Passenger counts are based on passenger counter data and vehicle full / empty messages.
PASSENGER_COUNT_DETAIL	History of the number of passengers per door on vehicles for verbose passenger count message.
PASSENGER_COUNT_DIAG	History of the IRMA Sensor messages.
PASSENGER_COUNT_RAW	History of the number of passengers on vehicles that could not be associated with a scheduled stop. Passenger counts are based upon passenger counter data.
PROPERTY_CONFIGURATION	Storage of locally configurable application constants.
RAIL_DISTANCE	History of distance (miles or kilometers) traveled by all rail vehicles.
SAF_MESSAGE	History of store and forward messages.
SCHED_AHERE_WAIVER	History of schedule adherence waivers that suppressed schedule adherence warning messages while in effect.
SCHEDULE	History of all stops scheduled for all blocks in a service day.
SERVICE_SELECTION	The service type(s) categories that are active for the given calendar service day.
STOP_FEATURE_XREF	A reference table between stops and stops features
SUBSYSTEM_EVENT	Contains events generated from the mobile. Configurable route, time, or location settings trigger the events.
SUBSYSTEM_HEALTH	Contains health status of various components on the mobile.
TMCONFIGURATION_ACTIVITY	History of changes made to the database through TMConfiguration.
TRANSFERS	History of transfers.
TRAFFIC_SIGNAL_EVENT	History of TSP events.
VEHICLE_ACTIVITY	History of when a dispatcher replaces a driver.
VEHICLE_EQUIPMENT_XREF	Each entry represents an equipment item that exists for a vehicle.
VEHICLE_FAULT_CODES	History of vehicle faults reported by engine controllers.
VEHICLE_PULLOUT_PULLIN	History of a scheduled block pull outs and pull ins.
VEHICLE_DISTANCE	History of distance (miles or kilometers) traveled by all vehicles.
VEHICLE_STATUS	History of availability status changes for all vehicles.
VIDEO_EVENT	History of video events.
VIOLATIONS	History of recorded driver violations.
WHEELCHAIR_CYCLED_COUNT	History of wheelchair lift being cycled on and off for all vehicles.
WHEELCHAIR_DWELLTIME	History of wheelchair lift dwell times on all vehicles.
WORK_ASSIGN_ROLE_ACTIVITY	History of when dispatchers logged on or off work assignment roles.
WORK_ASSIGN_VEH_ACTIVITY	History when dispatchers added or removed individual vehicles to their work assignment view.

ADHERENCE

Entity Name	ADHERENCE
Primary Keys	ADHERENCE_ID
Definition	Data related to a vehicle's actual crossing time and scheduled crossing time at a given timepoint.



ADHERENCE Attributes

Column Name	Data Type	Null	Definition
ADHERENCE_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ROUTE_ID	Numeric (5, 0)	N	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID

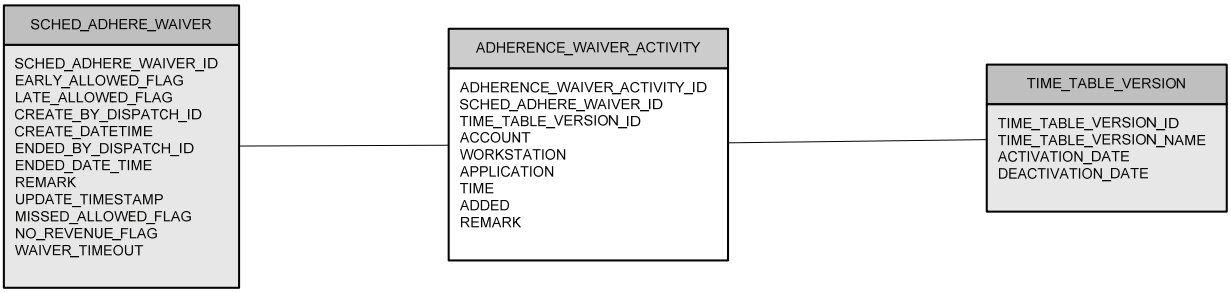
Fact Tables

Column Name	Data Type	Null	Definition
WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
TRIP_ID	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
TIME_POINT_ID	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
SCHED_ADHERE_WAIVER_ID	Numeric (9, 0)	Y	FK to SCHED_ADHERE_WAIVER.SCHED_ADHERE_WAIVER_ID
REVENUE_ID	Char (1)	Y	FK to REVENUE.REVENUE_ID
TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
IS_LAYOVER	Bit	Y	1 = The time point is a layover point. 0 = The time point is not a layover point.
BLOCK_STOP_ORDER	Integer	N	Chronological order of this stop within the block.
MESSAGE_TIME	Integer	Y	Seconds past midnight when the event occurred.
SCHEDULED_TIME	Numeric (10, 0)	Y	Seconds past midnight when the event was scheduled to occur.
SCHED_DIST_FROM_LAST_GEO_NODE	Integer	Y	Scheduled distance from previous geo node.
ADHERENCE	Numeric (5, 0)	Y	Seconds early (negative) or late.
ACTUAL_ARRIVAL_TIME	Integer	Y	Seconds past midnight of arrival at time point.
ACTUAL_DEPARTURE_TIME	Integer	Y	Seconds past midnight of departure from time point.
SCHEDULED_TIME_OFFSET	Integer	Y	Allowed offset from scheduled time.
ODOMETER	Integer	Y	Total distance traveled by the vehicle. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
VALIDITY	Smallint	Y	Validity of GPS message.
EARLY_COUNT	Numeric (7, 0)	Y	1 = Vehicle was early.
ONTIME_COUNT	Numeric (7, 0)	Y	1 = Vehicle was on time.
LATE_COUNT	Numeric (7, 0)	Y	1 = Vehicle was late.
MISSING_COUNT	Numeric (7, 0)	Y	1 = Vehicle did not cross scheduled time point.
ADJUSTED_EARLY_COUNT	Numeric (5, 0)	Y	1 = Vehicle was early after applying business rules.
ADJUSTED_ONTIME_COUNT	Numeric (5, 0)	Y	1 = Vehicle was on time after applying business rules.
ADJUSTED_LATE_COUNT	Numeric (5, 0)	Y	1 = Vehicle was late after applying business rules.
ADJUSTED_MISSING_COUNT	Numeric (5, 0)	Y	1 = Vehicle did not cross schedule time point.
EARLY_WAIVED_TP	Numeric (5, 0)	Y	1 = Vehicle was early, but the time point was waived.
LATE_WAIVED_TP	Numeric (5, 0)	Y	1 = Vehicle was late, but the time point was waived.
LAYOVER_EARLY_ALLOWED	Numeric (5, 0)	Y	1 = Vehicle was allowed to be early.
LAYOVER_LATE_ALLOWED	Numeric (5, 0)	Y	1 = Vehicle was allowed to be late.
EARLY_WAIVED_PT	Numeric (5, 0)	Y	Not used. Reserved for a future release.
OVERLOAD_ID	Integer	Y	Overload number if on an overloaded block.
IS_VEHICLE_STOPPED	bit	Y	0 = Vehicle has not stopped. 1 = Vehicle has stopped.
IS_DOOR_OPENED	bit	Y	0 = doors have not been opened. 1 = doors have been opened.
FIRST_LOC_STOP_TIME*	Numeric (10)	Y	The first stop time after arrival.
FIST_DOOR_OPEN_TIME*	Numeric (10)	Y	The time the vehicle first opened its doors.
CLOSEST_LOC_TIME*	Numeric (10)	Y	Time of the closest approach.
LAST_DOOR_CLOSE_TIME*	Numeric (10)	Y	The time the vehicle last closed its doors.
LAST_LOC_START_TIME*	Numeric (10)	Y	The last start time prior to departure.
IS_BATCHSTORAGE	Smallint	Y	Indicates timepoint crossing message came from a batch storage file. 0 = False 1 = True
PATTERN_GEO_NODE_SEQ	Numeric (7, 0)	Y	The bus stop sequence number of this time point's stop during the traversal of the pattern. Values will be increasing, but not necessarily consecutive since non-time point stops are not included in this table.

* Time is in two second increments since midnight.

ADHERENCE_WAIVER_ACTIVITY

Entity Name	ADHERENCE_WAIVER_ACTIVITY
Primary Keys	ADHERENCE_WAIVER_ACTIVITY_ID
Definition	History of new and modified adherence waivers by dispatcher.

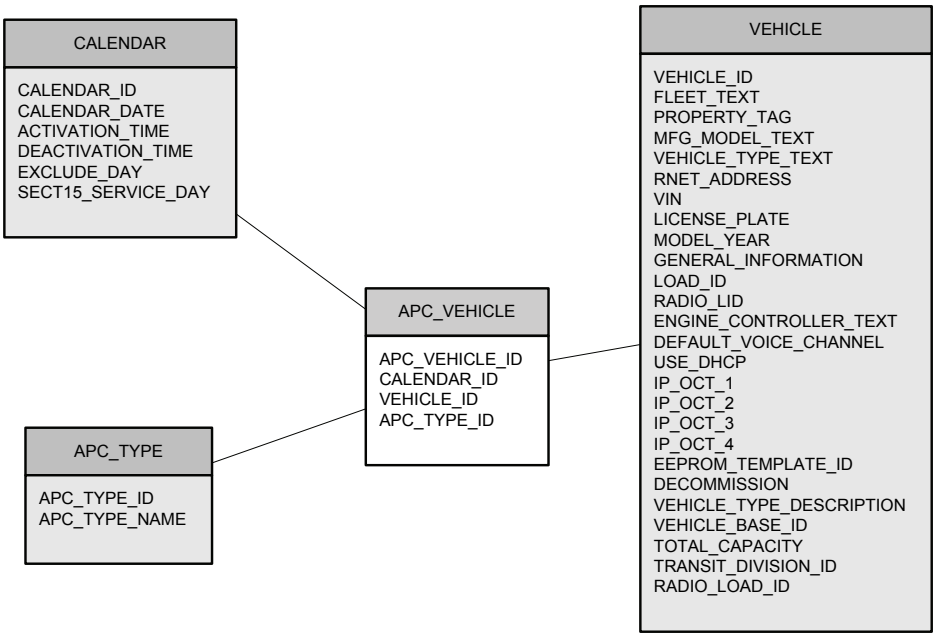


ADHERENCE_WAIVER_ACTIVITY Attributes

Column Name	Data Type	Null	Definition
ADHERENCE_WAIVER_ACTIVITY_ID	Integer	ID	Unique, system generated identifier.
SCHED_ADHERE_WAIVER_ID	Numeric (9, 0)	N	FK to SCHED_ADHERE_WAIVER.SCHED_ADHERE_WAIVER_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ACCOUNT	Varchar (128)	N	User account name.
WORKSTATION	Varchar (128)	N	Workstation initiating the activity.
APPLICATION	Varchar (64)	N	Application initiating the activity.
TIME	Datetime	N	Time of the activity.
ADDED	Bit	N	1= Adherence waiver was created. 0 = Adherence waiver was modified.
REMARK	Varchar (2000)	N	Free text remark.

APC_VEHICLE

Entity Name	APC_VEHICLE
Primary Keys	APC_VEHICLE_ID
Definition	Identifies vehicles with automatic passenger counters.

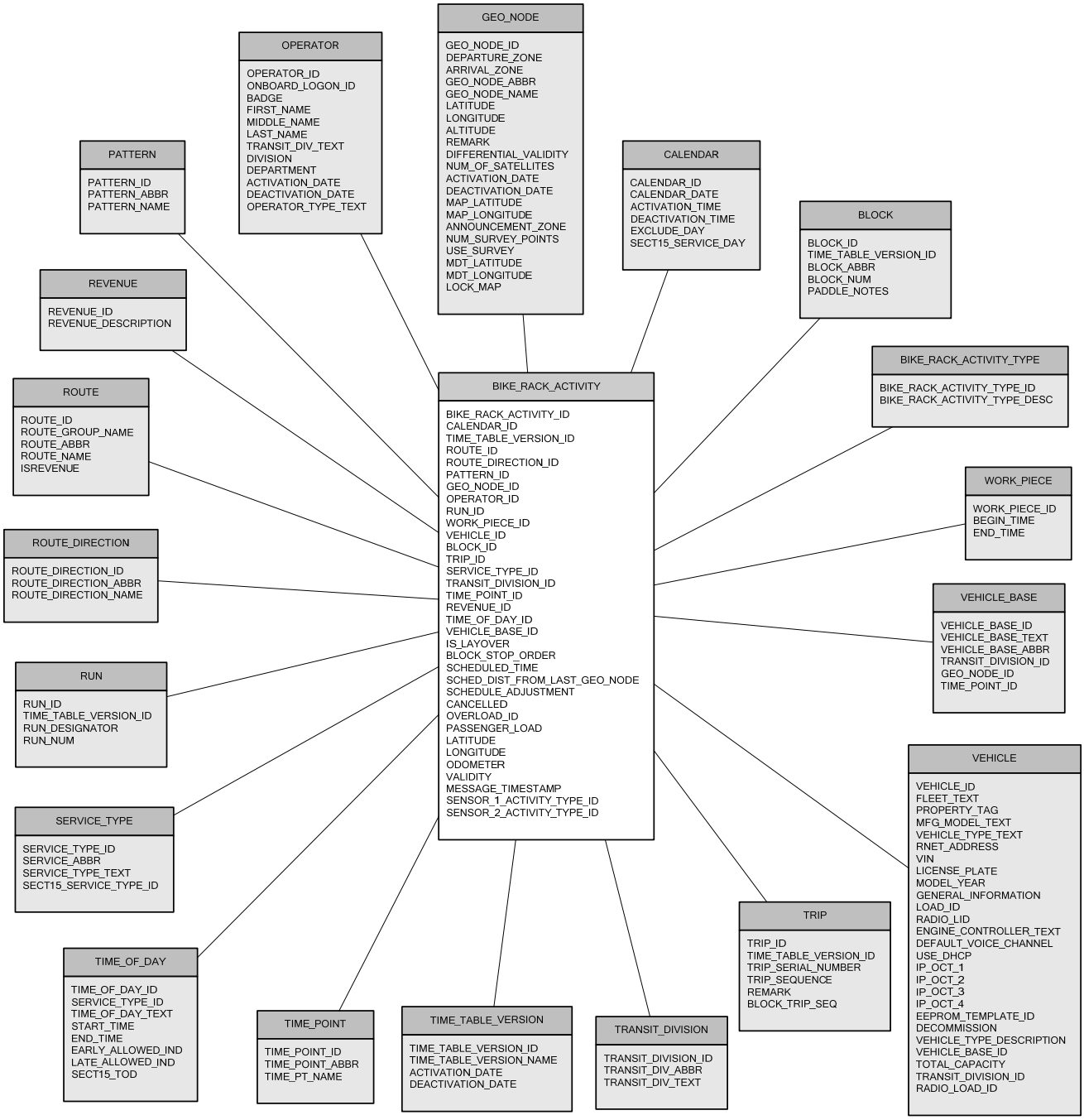


APC_VEHICLE Attributes

Column Name	Data Type	Null	Definition
APC_VEHICLE_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
VEHICLE_ID	Numeric (5, 0)	N	FK to VEHICLE.VEHICLE_ID
APC_TYPE_ID	Integer	Y	FK to APC_TYPE.APC_TYPE_ID A null value indicates no APC installed.

BIKE_RACK_ACTIVITY

Entity Name	BIKE_RACK_ACTIVITY
Primary Keys	BIKE_RACK_ACTIVITY_ID
Definition	History of bike rack activity.

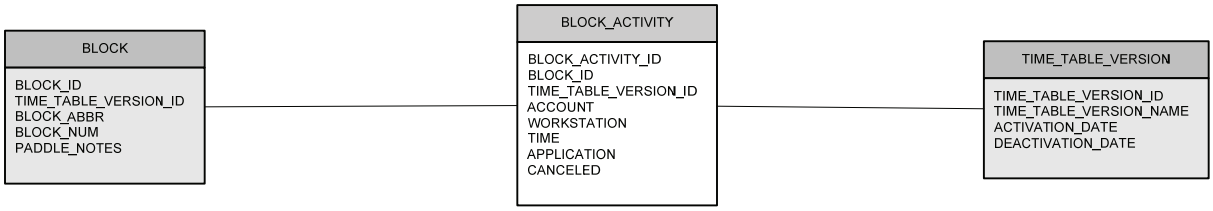


BIKE_RACK_ACTIVITY Attributes

Column Name	Data Type	Null	Definition
BIKE_RACK_ACTIVITY_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric(10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
TRIP_ID	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
TIME_POINT_ID	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
REVENUE_ID	Char (1)	Y	FK to REVENUE.REVENUE_ID
TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
IS_LAYOVER	Bit	Y	1 = The time point is a layover point. 0 = The time point is not a layover point.
BLOCK_STOP_ORDER	Integer	Y	Chronological order of this stop within the block.
SCHEDULED_TIME	Numeric (10, 0)	Y	Seconds past midnight the event was scheduled to occur.
SCHED_DIST_FROM_LAST_GEO_NODE	Integer	Y	Scheduled distance from previous geo node.
SCHEDULE_ADJUSTMENT	Integer	Y	Type of service adjustment (internal).
CANCELLED	Bit	Y	1 = Stop was cancelled.
OVERLOAD_ID	Integer	Y	Overload number if on an overloaded block.
PASSENGER_LOAD	Integer	Y	Passengers on board.
LATITUDE	Numeric (12,0)	Y	Vehicle's latitude at time of occurrence.
LONGITUDE	Numeric (12,0)	Y	Vehicle's longitude at time of occurrence.
ODOMETER	Integer	Y	Total distance traveled by the vehicle. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
VALIDITY	Integer	Y	Validity of GPS message.
MESSAGE_TIMESTAMP	Datetime	Y	The UTC timestamp that TMLogger recorded the message (not necessarily the date and time that the record was added to the database).
SENSOR_1_ACTIVITY_TYPE_ID	Integer	Y	Sensor for bike rack slot 1.
SENSOR_2_ACTIVITY_TYPE_ID	Integer	Y	Sensor for bike rack slot 2.

BLOCK_ACTIVITY

Entity Name	BLOCK_ACTIVITY
Entity Type	Independent
Primary Keys	BLOCK_ACTIVITY_ID
Definition	Records instances where the dispatcher "cancels" or "uncancels" a block.



BLOCK_ACTIVITY Attributes

Column Name	Data Type	Null	Definition
BLOCK_ACTIVITY_ID	Integer	N	A unique identifier for each record.
BLOCK_ID	Numeric (10, 0)	N	FK to BLOCK.BLOCK_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION.ID
ACCOUNT	Varchar (128)	N	User account name.
WORKSTATION	Varchar (128)	N	Workstation initiating the activity.
TIME	Datetime (8)	N	Time action was taken.
APPLICATION	Varchar (64)	N	Application initiating the activity.
CANCELED	Bit (1)	N	1= Block cancellation applies.

CHARTER_MODE_HRS

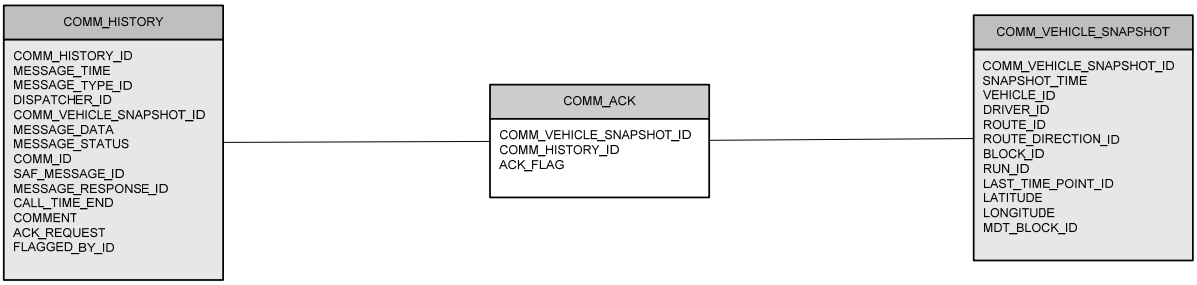
Entity Name	CHARTER_MODE_HRS
Primary Keys	None
Definition	Amount of time, in seconds, all vehicles spent in charter mode for a given service day.

CHARTER_MODE_HRS Attributes

Column Name	Data Type	Null	Definition
CALENDAR_ID	Numeric(10, 0)	N	FK to CALENDAR.CALENDAR_ID
SECONDS_IN_CHARTER_MODE	Integer	N	Total number of seconds in charter mode.

COMM_ACK

Entity Name	COMM_ACK
Primary Keys	None
Definition	Record of acknowledgement responses.

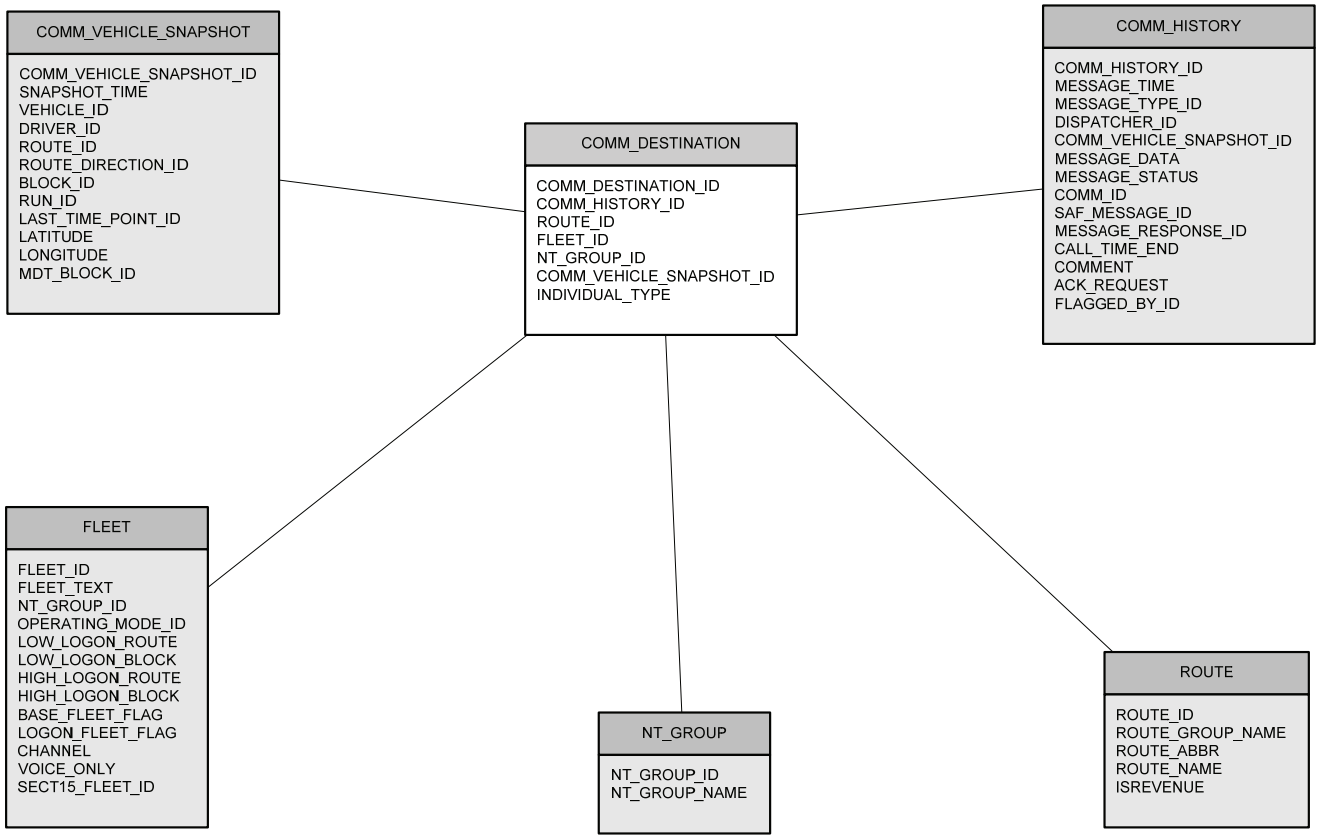


COMM_ACK Attributes

Column Name	Data Type	Null	Definition
COMM_VEHICLE_SNAPSHOT_ID	Integer	N	FK to COMM_VEHICLE_SNAPSHOT.COMM_VEHICLE_SNAPSHOT_ID
COMM_HISTORY_ID	Integer	N	FK to COMM_HISTORY.COMM_HISTORY_ID
ACK_FLAG	tinyint	Y	1 = Acknowledgement response was sent.

COMM_DESTINATION

Entity Name	COMM_DESTINATION
Primary Keys	COMM_DESTINATION_ID
Definition	History of all dispatch message destinations.

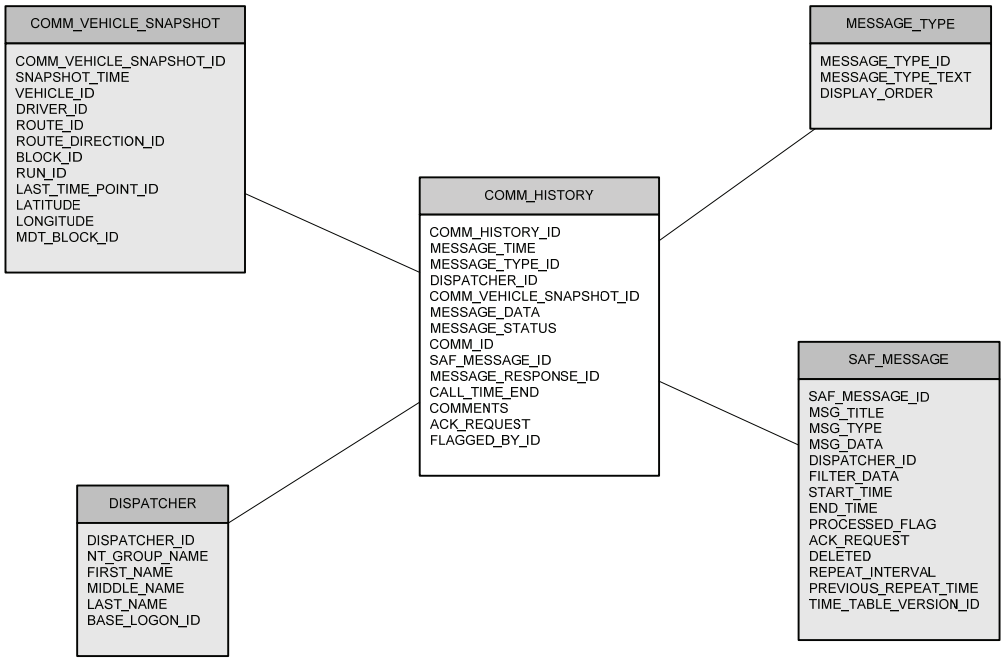


COMM_DESTINATION Attributes

Column Name	Data Type	Null	Definition
COMM_DESTINATION_ID	Integer	N	Unique, system generated identifier.
COMM_HISTORY_ID	Integer	N	FK to COMM_HISTORY.COMM_HISTORY_ID
ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
FLEET_ID	Numeric (5, 0)	Y	FK to FLEET.FLEET_ID
NT_GROUP_ID	Integer	Y	FK to NT_GROUP.NT_GROUP_ID. Predefined group a vehicle is assigned during the MT_INITVEHICLE message.
COMM_VEHICLE_SNAPSHOT_ID	Integer	Y	FK to COMM_VEHICLE_SNAPSHOT.COMM_VEHICLE_SNAPSHOT_ID
INDIVIDUAL_TYPE	Tinyint	Y	Identifies individual destination types such as driver (1), block (2), run (3), or vehicle (0). Excludes destination types such as route, fleet, or group.

COMM_HISTORY

Entity Name	COMM_HISTORY
Primary Keys	COMM_HISTORY_ID
Definition	History of communications messages from and to vehicles (RTT, PRTT,COVERT, OVERT, MDT_CANNED, DISPATCH_CANNED, DISPATCH_TEXT, STVC).

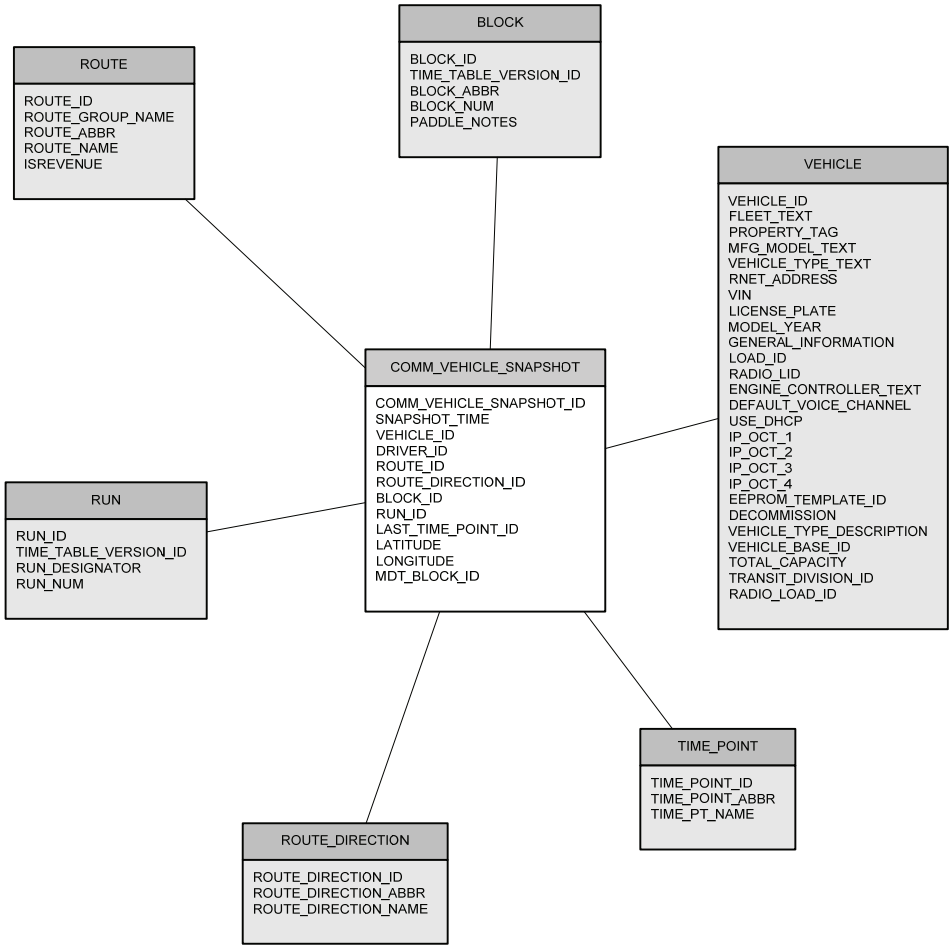


COMM_HISTORY Attributes

Column Name	Data Type	Null	Definition
COMM_HISTORY_ID	Integer	N	Unique, system generated identifier.
MESSAGE_TIME	Datetime	N	Seconds past midnight when the event occurred.
MESSAGE_TYPE_ID	Numeric (3, 0)	N	FK to MESSAGE_TYPE.MESSAGE_TYPE_ID
DISPATCHER_ID	Numeric (5, 0)	Y	FK to DISPATCHER.DISPATCHER_ID
COMM_VEHICLE_SNAPSHOT_ID	Integer	Y	FK to COMM_VEHICLE_SNAPSHOT.COMM_VEHICLE_SNAPSHOT_ID
MESSAGE_DATA	Varchar (500)	Y	Contents of text or canned message (in proprietary format).
MESSAGE_STATUS	Smallint	Y	Call complete or timed out flags.
COMM_ID	Smallint	Y	ID sent to mobile in order to match acknowledgment request with response.
SAF_MESSAGE_ID	Integer	Y	FK to SAF_MESSAGE.SAF_MESSAGE_ID
MESSAGE_RESPONSE_ID	Integer	Y	COMM_HISTORY_ID of record that prompted a response. For example, if a text message is in response to an RTT, the COMM_HISTORY_ID of the RTT is the MESSAGE_RESPONSE_ID in the text message record, linking the two communication events together.
CALL_TIME_END	Datetime	Y	Time that call ended for individual voice calls.
COMMENTS	Varchar (500)	Y	Notes entered in Communication History dialog or In Communication Dialog.
ACK_REQUEST	Tinyint	N	Acknowledgement or Y/N Acknowledgement Flags for voice, canned, or text messages.
FLAGGED_BY_ID	Integer	Y	Follow-up flag set by a user.

COMM_VEHICLE_SNAPSHOT

Entity Name	COMM_VEHICLE_SNAPSHOT
Primary Keys	COMM_VEHICLE_SNAPSHOT_ID
Definition	History of vehicle status snapshots at the time of message broadcast.



COMM_VEHICLE_SNAPSHOT Attributes

Column Name	Data Type	Null	Definition
COMM_VEHICLE_SNAPSHOT_ID	Integer	N	Unique, system generated identifier.
SNAPSHOT_TIME	Datetime	N	Time of the message broadcast.
VEHICLE_ID	Numeric (5, 0)	N	FK to VEHICLE.VEHICLE_ID
DRIVER_ID	Integer	Y	Operator ID.
ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
LAST_TIME_POINT_ID	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
LATITUDE	Float	Y	Vehicle's latitude at time of occurrence.
LONGITUDE	Float	Y	Vehicle's longitude at time of occurrence.
MDT_BLOCK_ID	Integer	Y	Reference to BLOCK.MDT_BLOCK_ID

COMMUNICATIONS_ACTIVITY

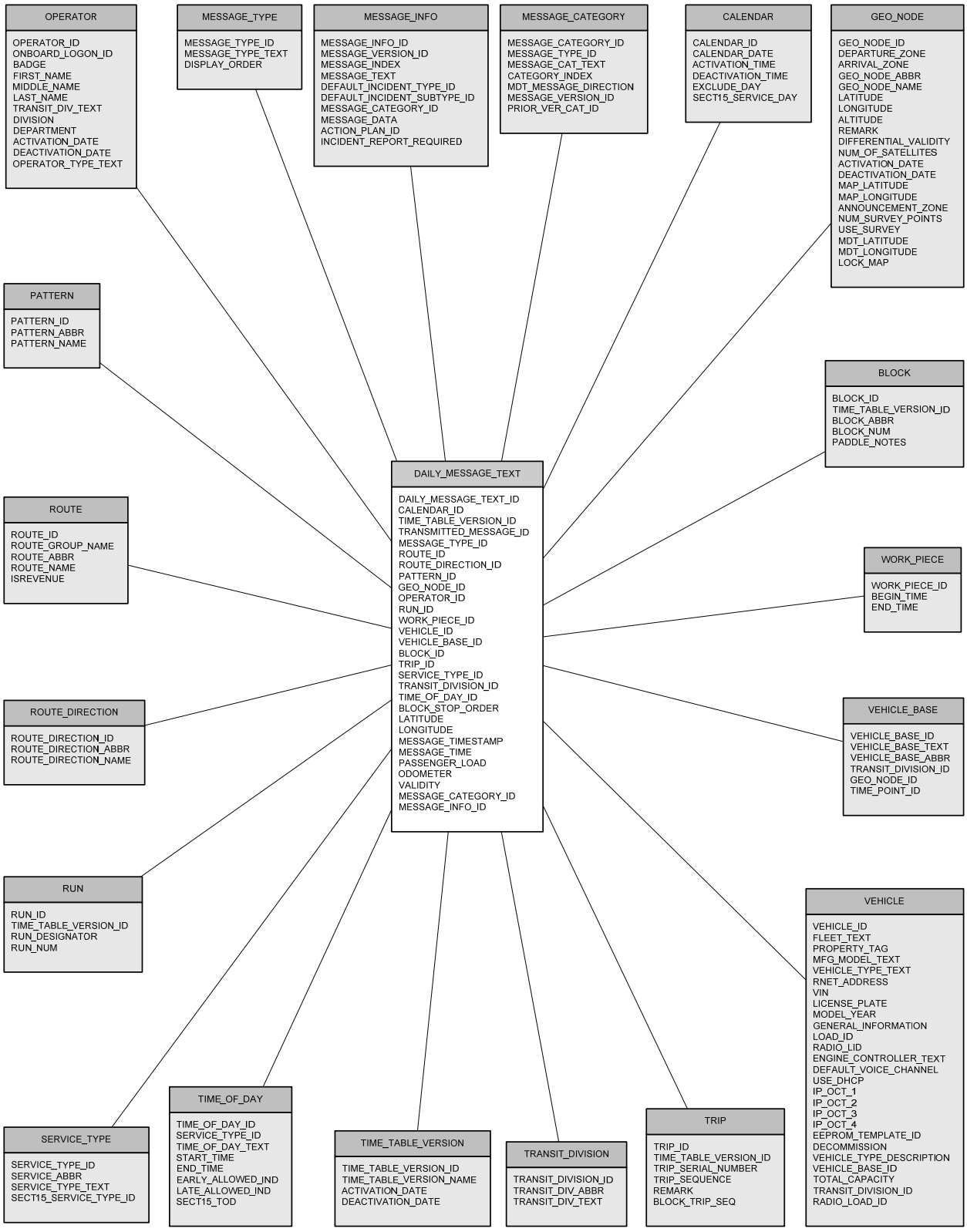
Entity Name	COMMUNICATIONS_ACTIVITY
Primary Keys	COMMUNICATIONS_ACTIVITY_ID
Definition	History of changes in the voice communication default values Audio Path, Audio Channel, and Timeout by dispatcher.

COMMUNICATIONS_ACTIVITY Attributes

Column Name	Data Type	Null	Definition
COMMUNICATIONS_ACTIVITY_ID	Integer	Y	Unique, system generated identifier.
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ACCOUNT	Varchar (128)	N	User account name.
WORKSTATION	Varchar (128)	N	Workstation initiating the activity.
TIME	Datetime	N	Time of the activity.
APPLICATION	Varchar (64)	N	Application initiating the activity.
AUDIO	Numeric (5, 0)	N	Audio path number of handset, loud speaker, etc.
TIMEOUT	Numeric (5, 0)	N	Time in seconds of voice call timeout.
TALK_ID	Numeric (3, 0)	N	ID sent to mobile in order to match acknowledgment request with response.

DAILY_MESSAGE_TEXT

Entity Name	DAILY_MESSAGE_TEXT
Primary Keys	DAILY_MESSAGE_TEXT_ID
Definition	History of daily messages.

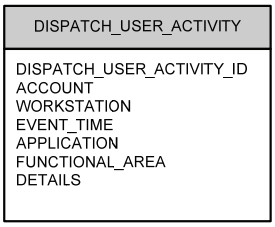


DAILY_MESSAGE_TEXT Attributes

Column Name	Data Type	Null	Definition
DAILY_MESSAGE_TEXT_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	Y	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
TRANSMITTED_MESSAGE_ID	Bigint	Y	Reference to TMDailyLog.LOGGED_MESSAGE.TRANSMITTED_MESSAGE_ID
MESSAGE_TYPE_ID	Numeric (3, 0)	N	FK to MESSAGE_TYPE.MESSAGE_TYPE_ID
ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
TRIP_ID	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
BLOCK_STOP_ORDER	Integer	Y	Chronological order of this stop within the block.
LATITUDE	Numeric (12, 0)	Y	Vehicle's latitude at time of occurrence.
LONGITUDE	Numeric (12, 0)	Y	Vehicle's longitude at time of occurrence.
MESSAGE_TIMESTAMP	Datetime	Y	The UTC timestamp that TMLogger recorded the message (not necessarily the date and time that the record was added to the database).
MESSAGE_TIME	Integer	Y	Seconds past midnight when the event occurred.
PASSENGER_LOAD	Integer	Y	Passengers on board.
ODOMETER	Integer	Y	Total distance traveled by the vehicle. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
VALIDITY	Smallint	Y	Validity of GPS message.
MESSAGE_CATEGORY_ID	Numeric (4, 0)	Y	FK to MESSAGE_CATEGORY.MESSAGE_CATEGORY_ID
MESSAGE_INFO_ID	Numeric (5, 0)	Y	FK to MESSAGE_INFO.MESSAGE_INFO_ID

DISPATCH_USER_ACTIVITY

Entity Name	DISPATCH_USER_ACTIVITY
Primary Keys	DISATCH_USER_ACTIVITY_ID
Definition	History of dispatch user activity.

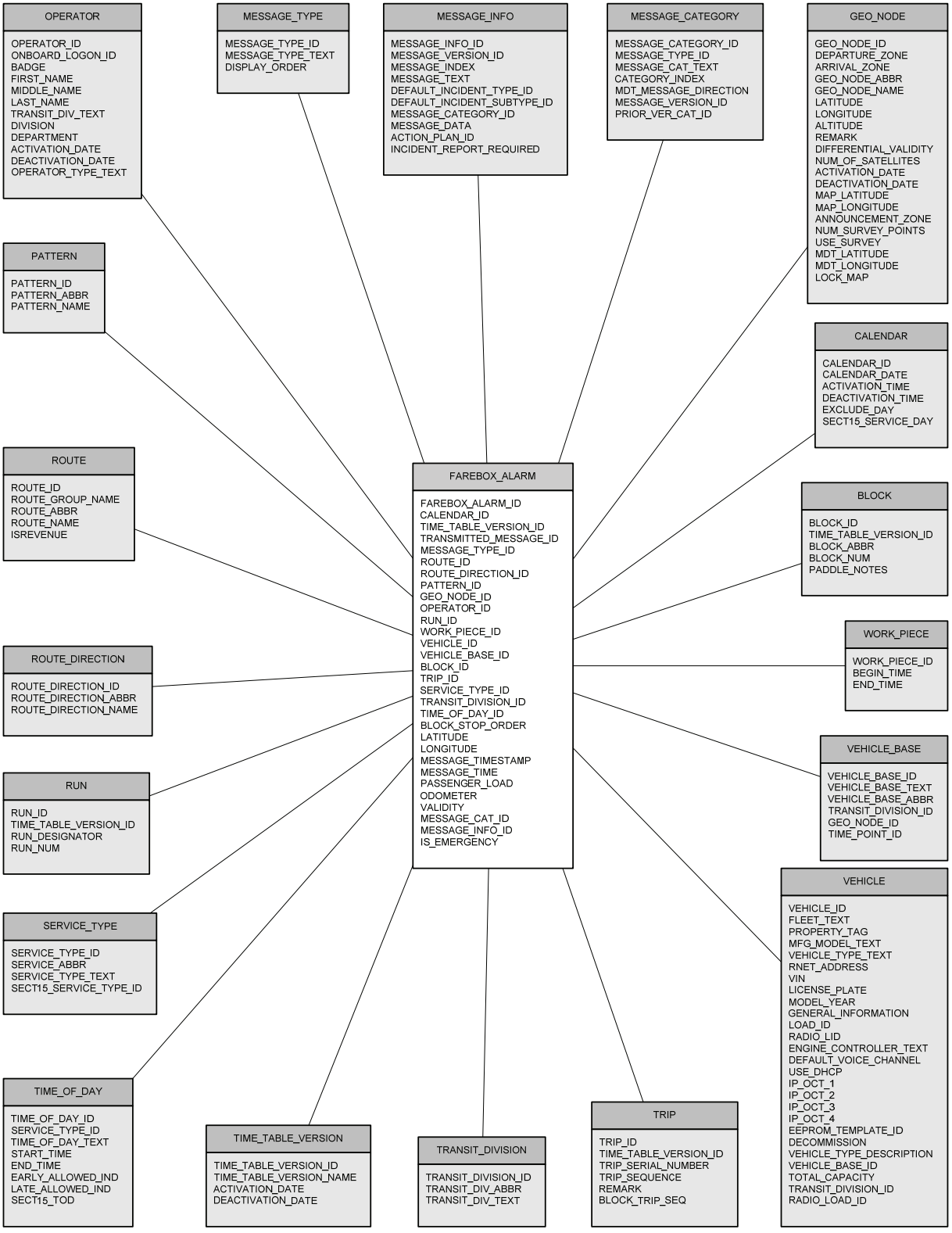


DISPATCH_USER_ACTIVITY Attributes

Column Name	Data Type	Null	Definition
DISPATCH_USER_ACTIVITY_ID	Integer	ID	Unique, system generated identifier.
ACCOUNT	Varchar (128)	N	User account name.
WORKSTATION	Varchar (128)	N	Workstation initiating the activity.
EVENT_TIME	Datetime	N	Time of the activity.
APPLICATION	Varchar (64)	N	Application initiating the activity.
FUNCTIONAL_AREA	Varchar (64)	N	Scope of the activity.
DETAILS	Varchar (256)	N	Details of the activity.

FAREBOX_ALARM

Entity Name	FAREBOX_ALARM
Primary Keys	FAREBOX_ALARM_ID
Definition	History of farebox alarms.

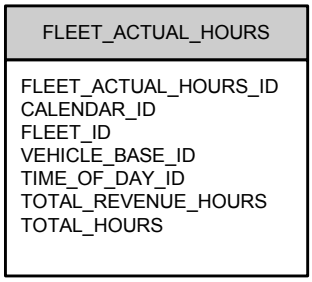


FAREBOX_ALARM Attributes

Column Name	Data Type	Null	Definition
FAREBOX_ALARM_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	Y	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
TRANSMITTED_MESSAGE_ID	Bigint	Y	Reference to TMDailyLog.LOGGED_MESSAGE.TRANSMITTED_MESSAGE_ID
MESSAGE_TYPE_ID	Numeric (3, 0)	N	FK to MESSAGE_TYPE.MESSAGE_TYPE_ID
ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
TRIP_ID	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
BLOCK_STOP_ORDER	integer	Y	Chronological order of this stop within the block.
LATITUDE	Numeric (12, 0)	Y	Vehicle's latitude at time of occurrence.
LONGITUDE	Numeric (12, 0)	Y	Vehicle's longitude at time of occurrence.
MESSAGE_TIMESTAMP	datetime	Y	The UTC timestamp that TMLogger recorded the message (not necessarily the date and time that the record was added to the database).
MESSAGE_TIME	Integer	Y	Seconds past midnight when the event occurred.
PASSENGER_LOAD	Integer	Y	Passengers on board.
ODOMETER	Integer	Y	Total distance traveled by the vehicle. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
VALIDITY	Smallint	Y	Validity of GPS message.
MESSAGE_CATEGORY_ID	Numeric (5, 0)	Y	FK to MESSAGE_CATEGORY.MESSAGE_CATEGORY_ID
MESSAGE_INFO_ID	Numeric (5, 0)	Y	FK to MESSAGE_INFO.MESSAGE_INFO_ID
IS_EMERGENCY	Bit	Y	1 = Emergency alarm.

FLEET_ACTUAL_HOURS

Entity Name	FLEET_ACTUAL_HOURS
Primary Keys	FLEET_ACTUAL_HOURS_ID
Definition	Total hours and revenue hours of the given fleet.

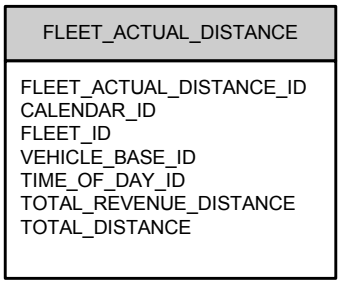


FLEET_ACTUAL_HOURS Attributes

Column Name	Datatype	Null	Definition
FLEET_ACTUAL_HOURS_ID	Integer	N	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
FLEET_ID	Numeric (5, 0)	Y	FK to FLEET.FLEET_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK to VEHICLE_BASE.VEHICLE_BASE_ID
TIME_OF_DAY_ID	Numeric (3, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
TOTAL_REVENUE_HOURS	Numeric (10, 2)	Y	Total vehicle hours.
TOTAL_HOURS	Numeric (10, 2)	Y	Total revenue hours of the fleet.

FLEET_ACTUAL_DISTANCE

Entity Name	FLEET_ACTUAL_DISTANCE
Primary Keys	FLEET_ACTUAL_DISTANCE_ID
Definition	Total distance and revenue distance of the given fleet.

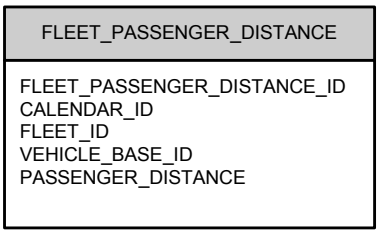


FLEET_ACTUAL_DISTANCE Attributes

Column Name	Datatype	Null	Definition
FLEET_ACTUAL_DISTANCE_ID	Integer	N	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
FLEET_ID	Numeric (5, 0)	Y	FK to FLEET.FLEET_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK to VEHICLE_BASE.VEHICLE_BASE_ID
TIME_OF_DAY_ID	Numeric (3, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
TOTAL_REVENUE_DISTANCE	Numeric (10, 2)	Y	Total revenue distance of the fleet.
TOTAL_DISTANCE	Numeric (10, 2)	Y	Total fleet distance.

FLEET_PASSENGER_DISTANCE

Entity Name	FLEET_PASSENGER_DISTANCE
Primary Keys	FLEET_PASSENGER_DISTANCE_ID
Definition	Total passenger distance of the given fleet.

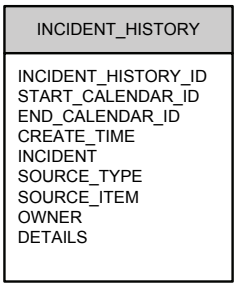


FLEET_PASSENGER_DISTANCE Attributes

Column Name	Datatype	Null	Definition
FLEET_PASSENGER_DISTANCE_ID	Integer	N	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
FLEET_ID	Numeric (5, 0)	Y	FK to FLEET.FLEET_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK to VEHICLE_BASE.VEHICLE_BASE_ID
PASSENGER_DISTANCE	Numeric (10, 2)	Y	Total passenger distance of the fleet.

INCIDENT_HISTORY

Entity Name	INCIDENT_HISTORY
Primary Keys	INCIDENT_HISTORY_ID
Definition	Each entry defines a past incident from the TMBusOps incident queue. The record contains information about the incident, including details about event(s) that triggered the incident, users that worked on the incident and the action steps taken at what time.

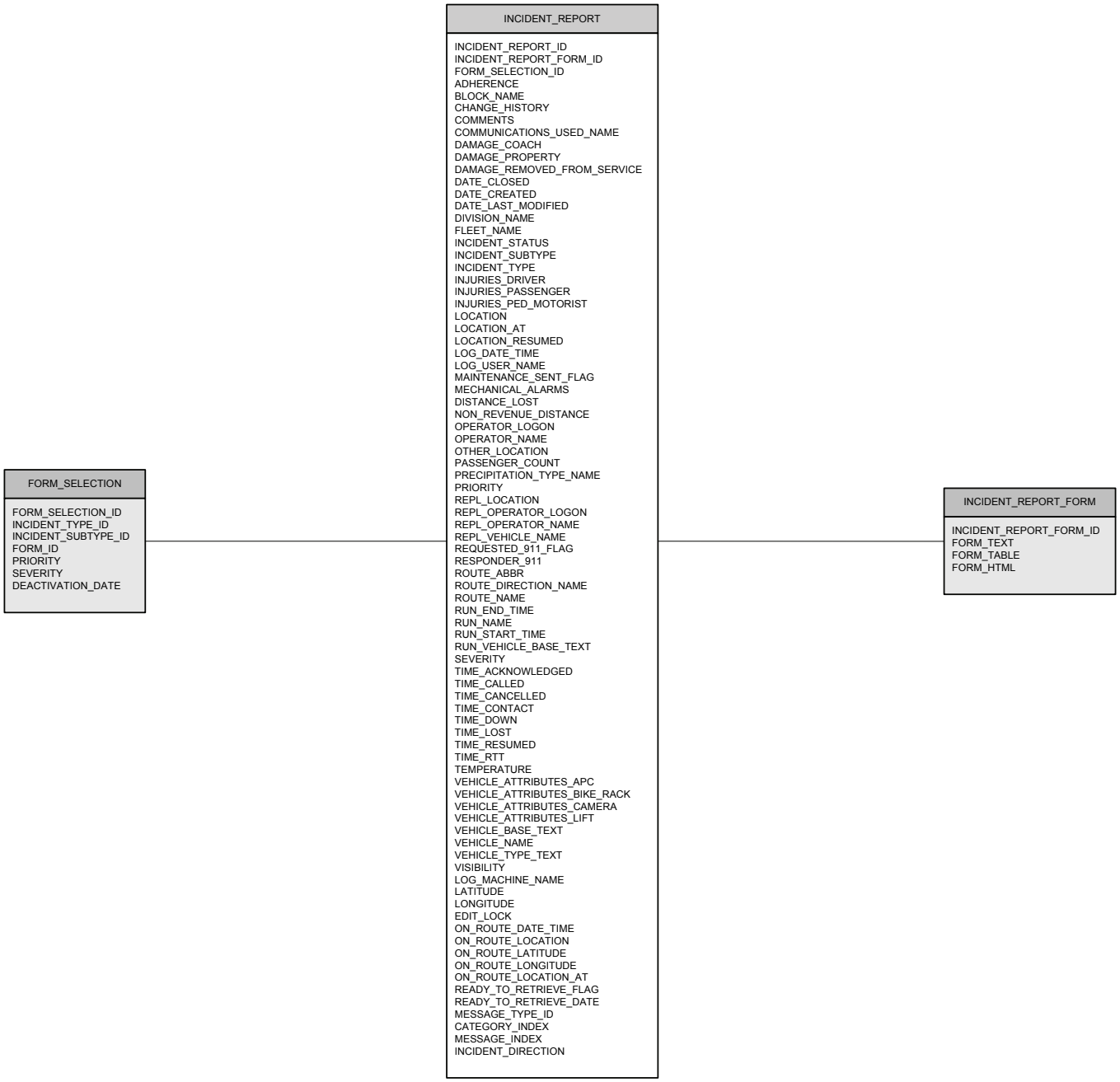


INCIDENT_HISTORY Attributes

Column Name	Data Type	Null	Definition
INCIDENT_HISTORY_ID	Integer	ID	Unique, system generated identifier.
START_CALENDAR_ID	Integer	N	Calendar ID when the incident was created.
END_CALENDAR_ID	Integer	N	Calendar ID when the incident was deleted.
CREATE_TIME	datetime	N	Date/time when the incident was created.
INCIDENT	Varchar (50)	N	Name of incident.
SOURCE_TYPE	Varchar (50)	N	Type of source that caused the incident, e.g., vehicle, route, system, etc…
SOURCE_ITEM	Varchar (50)	N	Name of object that caused the incident, e.g., BIAB1, 234A, etc…
OWNER	Varchar (50)	N	The last owner of the incident. Format is: Windows username@machine
DETAILS	Varchar (5000)	N	Incident details in .xml format, e.g., action steps, event history, etc…

INCIDENT_REPORT

Entity Name	INCIDENT_REPORT
Primary Keys	INCIDENT_REPORT_ID
Definition	History of incident report data.



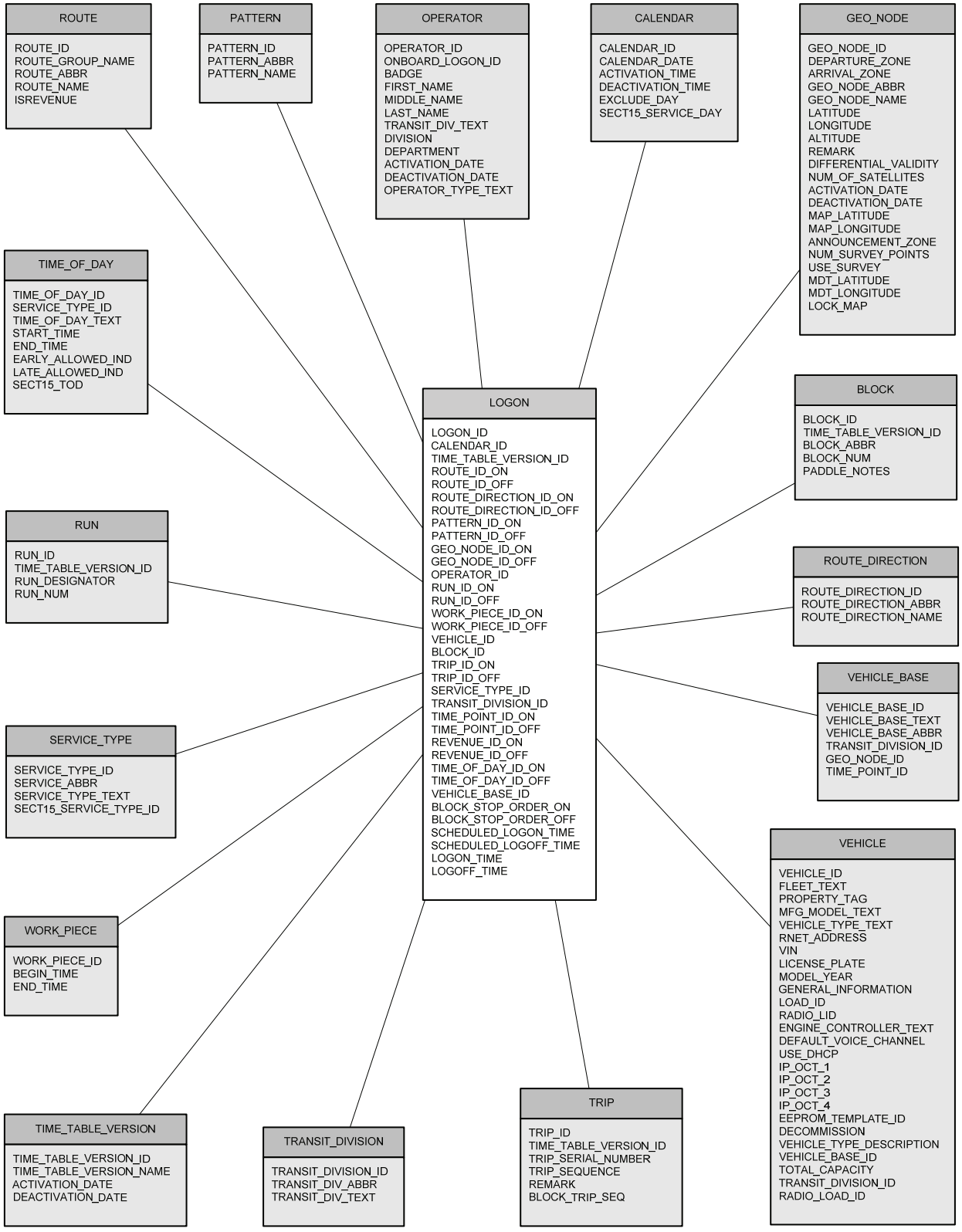
INCIDENT_REPORT Attributes

Column Name	Data Type	Null	Definition
INCIDENT_REPORT_ID	Integer	N	Unique, system generated identifier.
INCIDENT_REPORT_FORM_ID	Numeric (5, 0)	Y	FK to INCIDENT_REPORT_FORM.INCIDENT_REPORT_FORM_ID
FORM_SELECTION_ID	Numeric (5, 0)	Y	FK to FORM_SELECTION.FORM_SELECTION_ID
ADHERENCE	Integer	Y	Seconds early (negative) or late.
BLOCK_NAME	Varchar (9)	Y	The block associated with the vehicle at the time of the incident.
CHANGE_HISTORY	Varchar (max)	Y	A list of changes that occurred over time.
COMMENTS	Varchar (max)	Y	Comments stored for the report.
COMMUNICATIONS_USED_NAME	Varchar (50)	Y	Based on the Message Type with the following possible values: Covert Alarm, Other, Overt Alarm, Phone, PRTT, RTT, Walk-in.
DAMAGE_COACH	Tinyint	Y	Indicates whether the coach sustained damage.
DAMAGE_PROPERTY	Tinyint	Y	Indicates whether the property sustained damage.
DAMAGE_REMOVED_FROM_SERVICE	Tinyint	Y	Indicates whether the vehicle was removed from service.
DATE_CLOSED	Datetime	Y	The date the report status was changed to closed.
DATE_CREATED	Datetime	Y	The date the report was created.
DATE_LAST_MODIFIED	Datetime	Y	The date the report was last modified.
DIVISION_NAME	Varchar (30)	Y	The transit division text.
FLEET_NAME	Varchar (100)	Y	The fleet text.
INCIDENT_STATUS	Smallint	N	The status of the incident report: Open (0) or Closed (1).
INCIDENT_SUBTYPE	Varchar (100)	Y	The incident subtype as defined in Manage Incident Types/Subtypes dialog.
INCIDENT_TYPE	Varchar (100)	Y	The incident type as defined in Manage Incident Types/Subtypes dialog.
INJURIES_DRIVER	Tinyint	Y	Indicates whether the driver sustained injuries.
INJURIES_PASSENGER	Tinyint	Y	Indicates whether a passenger sustained injuries.
INJURIES_PED_MOTORIST	Tinyint	Y	Indicates whether pedestrian or motorists sustained injuries.
LOCATION	Varchar (60)	Y	Time-point relative location where the incident occurred.
LOCATION_AT	Varchar (255)	Y	The Street/Cross Street location where the incident occurred.
LOCATION_RESUMED	Varchar (60)	Y	Time when the route schedule was resumed.
LOG_DATE_TIME	Datetime	Y	The date/time that the incident occurred (may be modified by the user to reflect when it occurred vs. when the message was sent or the incident report was created).
LOG_USER_NAME	Varchar (255)	Y	The user ID of the person who created the report or who took ownership of the report.
MAINTENANCE_SENT_FLAG	Numeric (1, 0)	Y	Indicates whether a maintenance crew was sent for a vehicle related incident.
MECHANICAL_ALARMS	Varchar (400)	Y	The mechanical alarms flags.
DISTANCE_LOST	Numeric (5, 0)	Y	Miles or Kilometers lost due to incident.
NON_REVENUE_MILES	Numeric (5, 0)	Y	Number of miles traveled to perform the change-out.
OPERATOR_LOGON	Numeric (7, 0)	Y	Driver ID.
OPERATOR_NAME	Varchar (63)	Y	Driver name.
OTHER_LOCATION	Varchar (60)	Y	Hold another location value.
PASSENGER_COUNT	Numeric (3, 0)	Y	Whole number indicating the number of passengers that boarded a vehicle.
PRECIPITATION_TYPE_NAME	Varchar (56)	Y	Identification of type of precipitation.
PRIORITY	Numeric (3, 0)	Y	A value that can be used to categorize the incidents by their priority.
REPL_LOCATION	Varchar (60)	Y	Location where the change-out occurred.
REPL_OPERATOR_LOGON	Numeric (7, 0)	Y	Driver ID of who replaced the original driver of the vehicle.
REPL_OPERATOR_NAME	Varchar (63)	Y	Driver name of who replaced the original driver of the vehicle.
REPL_VEHICLE_NAME	Varchar (20)	Y	The vehicle that replaced the original vehicle.
REQUESTED_911_FLAG	Numeric (1, 0)	Y	Indicates whether a 911 agency was requested for the incident.
RESPONDER_911	Varchar (60)	Y	Identification of the 911 agency responding to the incident.
ROUTE_ABBR	Varchar (8)	Y	The route abbreviation.
ROUTE_DIRECTION_NAME	Varchar (15)	Y	The route direction name.
ROUTE_NAME	Varchar (75)	Y	The route name.
RUN_END_TIME	Varchar (11)	Y	The workpiece end time.

Column Name	Data Type	Null	Definition
RUN_NAME	Varchar (10)	Y	The run designator.
RUN_START_TIME	Varchar (11)	Y	The workpiece begin time.
RUN_VEHICLE_BASE_TEXT	Varchar (100)	Y	The garage (of Run).
SEVERITY	Numeric (3, 0)	Y	Value that categorizes incidents by severity.
TIME_ACKNOWLEDGED	Datetime	Y	Time RTT was acknowledged.
TIME_CALLED	Datetime	Y	Time operator was called in regard to RTT.
TIME_CANCELLED	Datetime	Y	Time emergency alarm was cancelled.
TIME_CONTACT	Datetime	Y	Time contact was initiated.
TIME_DOWN	Datetime	Y	Time period the route schedule was interrupted.
TIME_LOST	Datetime	Y	Time lost due to incident.
TIME_RESUMED	Datetime	Y	Time the route schedule was resumed.
TIME_RTT	Datetime	Y	Time Request-To-Talk (RTT) was initiated.
TEMPERATURE	Numeric (5, 2)	Y	Number indicating the air temperature in degrees.
VEHICLE_ATTRIBUTES_APC	Tinyint	Y	The vehicle APC flag.
VEHICLE_ATTRIBUTES_BIKE_RACK	Tinyint	Y	The vehicle bike rack flag.
VEHICLE_ATTRIBUTES_CAMERA	Tinyint	Y	The vehicle camera flag.
VEHICLE_ATTRIBUTES_LIFT	Tinyint	Y	The vehicle lift flag.
VEHICLE_BASE_TEXT	Varchar (100)	Y	The garage (of vehicle).
VEHICLE_NAME	Varchar (20)	Y	The vehicle property flag.
VEHICLE_TYPE_TEXT	Varchar (100)	Y	The vehicle type text.
VISIBILITY	Numeric (7, 0)	Y	The number of feet of visibility.
LOG_MACHINE_NAME	Varchar (15)	Y	The workstation ID (machine name) of the computer from which the incident report was entered.
LATITUDE	Numeric (10, 7)	Y	The map coordinate indicating latitude.
LONGITUDE	Numeric (10, 7)	Y	The map coordinate indicating longitude.
EDIT_LOCK	Varchar (50)	Y	The username of the user currently editing this incident report-used to prevent multiple users editing the same report at the same time.
ON_ROUTE_DATE_TIME	Datetime	Y	The date time when the vehicle went back on route.
ON_ROUTE_LOCATION	Varchar (60)	Y	The timepoint when the vehicle went back on route.
ON_ROUTE_LATITUDE	Numeric (10, 7)	Y	The latitude when the vehicle went back on route.
ON_ROUTE_LONGITUDE	Numeric (10, 7)	Y	The longitude when the vehicle went back on route.
ON_ROUTE_LOCATION_AT	Varchar (255)	Y	The Street/CrossStreet when the vehicle went back on route.
READY_TO_RETRIEVE_FLAG	Smallint	Y	Indicates that the incident is ready to be retrieved (exported).
READY_TO_RETRIEVE_DATE	Datetime	Y	The date the incident became ready to be retrieved.
MESSAGE_TYPE_ID	Numeric (3, 0)	Y	FK to MESSAGE_TYPE table
CATEGORY_INDEX	Numeric (7, 0)	Y	CATEGORY_INDEX from the MESSAGE_CATERGORY table that identifies a specific row given a MESSAGE_TYPE_ID.
MESSAGE_INDEX	Numeric (10, 0)	Y	MESSAGE_INDEX from the MESSAGE_INFO table that identifies a specific row given a MESSAGE_CAT_ID
INCIDENT_DIRECTION	Varchar(10)	Y	Direction of the vehicle when the incident occurred.

LOGON

Entity Name	LOGON
Primary Keys	LOGON_ID
Definition	History of all scheduled logon and associated logoff activity.

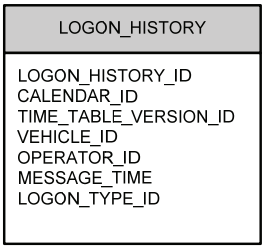


LOGON Attributes

Column Name	Data Type	Null	Definition
LOGON_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ROUTE_ID_ON	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_ID_OFF	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID_ON	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
ROUTE_DIRECTION_ID_OFF	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID_ON	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
PATTERN_ID_OFF	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID_ON	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
GEO_NODE_ID_OFF	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID_ON	Numeric (10, 0)	Y	FK to RUN.RUN_ID
RUN_ID_OFF	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID_ON	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
WORK_PIECE_ID_OFF	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
TRIP_ID_ON	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
TRIP_ID_OFF	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
TIME_POINT_ID_ON	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
TIME_POINT_ID_OFF	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
REVENUE_ID_ON	Char (1)	Y	FK to REVENUE.REVENUE_ID
REVENUE_ID_OFF	Char (1)	Y	FK to REVENUE.REVENUE_ID
TIME_OF_DAY_ID_ON	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
TIME_OF_DAY_ID_OFF	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
BLOCK_STOP_ORDER_ON	Integer	Y	Chronological order of GEO_NODE_ON within the block.
BLOCK_STOP_ORDER_OFF	Integer	Y	Chronological order of GEO_NODE_OFF within the block.
SCHEDULED_LOGON_TIME	Numeric (10, 0)	Y	Seconds past midnight of the scheduled logon.
SCHEDULED_LOGOFF_TIME	Numeric (10, 0)	Y	Seconds past midnight of the scheduled logoff.
LOGON_TIME	Numeric (10, 0)	Y	Seconds past midnight of the actual logon.
LOGOFF_TIME	Numeric (10, 0)	Y	Seconds past midnight of the actual logoff.

LOGON_HISTORY

Entity Name	LOGON_HISTORY
Primary Keys	LOGON_HISTORY_ID
Definition	History of all logon attempts

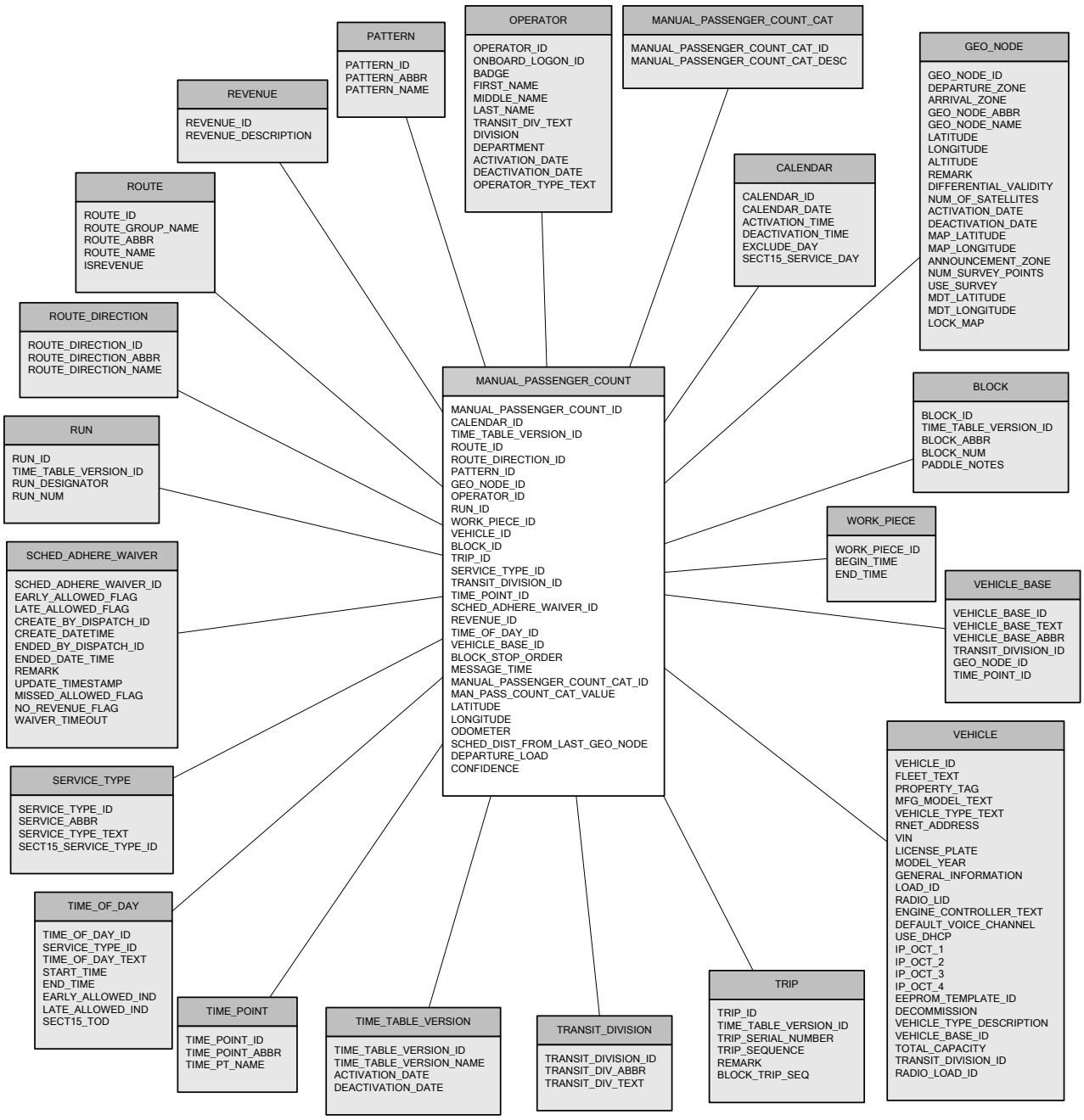


LOGON_HISTORY Attributes

Column Name	Data Type	Null	Definition
LOGON_HISTORY_ID	Integer	N	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
VEHICLE_ID	Numeric (5, 0)	N	FK to VEHICLE.VEHICLE_ID
OPERATOR_ID	Numeric (5, 0)	N	FK to OPERATOR.OPERATOR_ID
MESSAGE_TIME	Integer	N	Time of the logon attempt in seconds past midnight.
LOGON_TYPE_ID	Ttinyint (1)	N	FK to LOGON_TYPE.LOGON_TYPE_ID

MANUAL_PASSENGER_COUNT

Entity Name	MANUAL_PASSENGER_COUNT
Primary Keys	MANUAL_PASSENGER_COUNT_ID
Definition	History of all manual passenger counts sent from the vehicles.

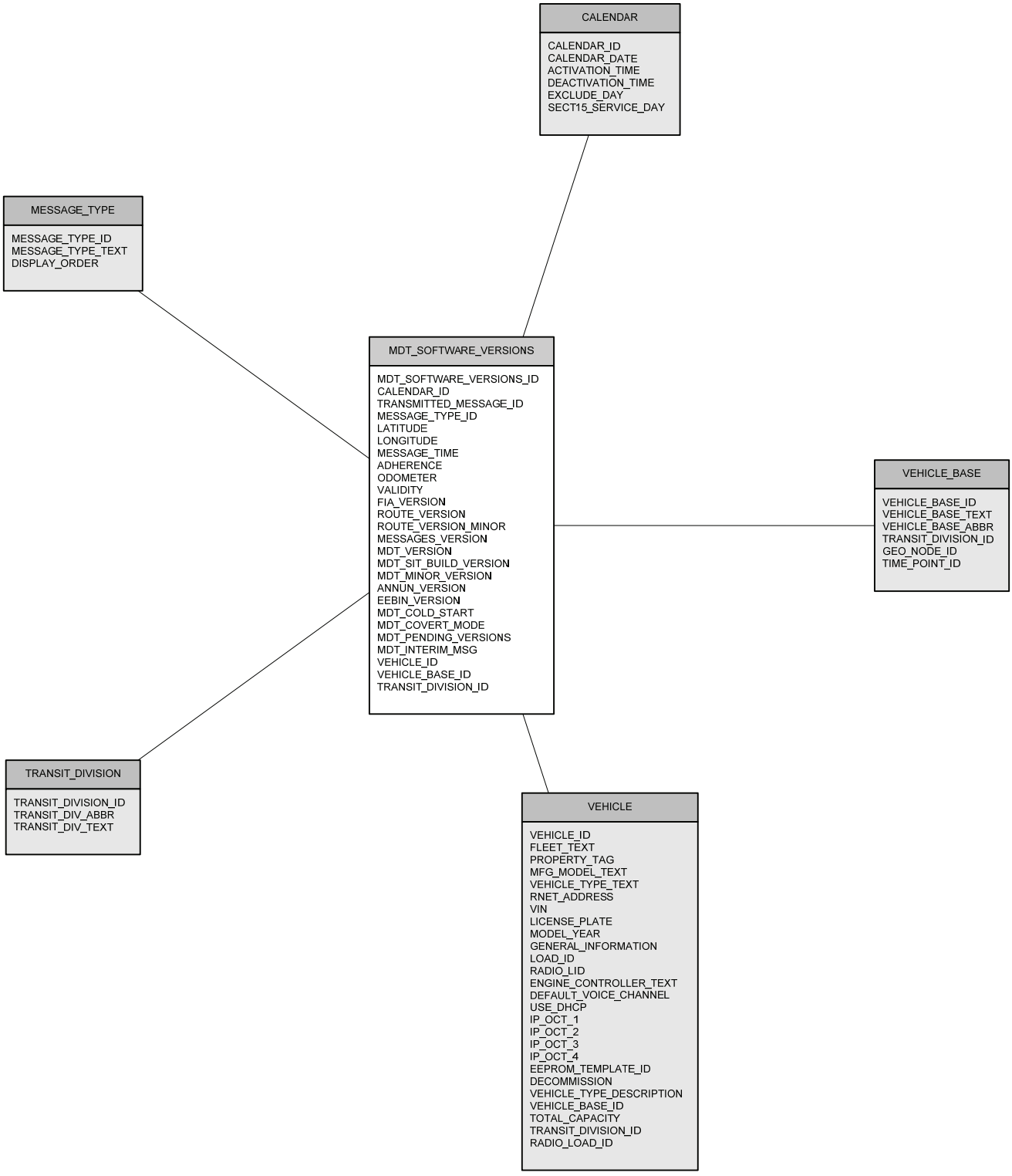


MANUAL_PASSENGER_COUNT Attributes

Column Name	Data Type	Null	Definition
MANUAL_PASSENGER_COUNT_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ROUTE_ID	Numeric (5, 0)	N	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID	Numeric (5, 0)	N	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID	Numeric (10, 0)	N	FK to PATTERN.PATTERN_ID
GEO_NODE_ID	Numeric (10, 0)	N	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
BLOCK_ID	Numeric (10, 0)	N	FK to BLOCK.BLOCK_ID
TRIP_ID	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID	Numeric (3, 0)	N	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	N	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
TIME_POINT_ID	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
SCHED_ADHERE_WAIVER_ID	Numeric (9, 0)	Y	FK to SCHED_ADHERE_WAIVER.SCHED_ADHERE_WAIVER_ID
REVENUE_ID	Char (1)	Y	FK to REVENUE.REVENUE_ID
TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
BLOCK_STOP_ORDER	Integer	N	Chronological order of stop within the block.
MESSAGE_TIME	Integer	Y	Seconds past midnight when the event occurred.
MANUAL_PASSENGER_COUNT_CAT_ID	Integer	Y	FK to MANUAL_PASSENGER_COUNT_CAT.MANUAL_PASSENGER_COUNT_CAT_ID
MAN_PASS_COUNT_CAT_VALUE	Integer	Y	Count value for the MANUAL_PASSENGER_COUNT_CAT_ID entered
LATITUDE	Numeric (12, 0)	Y	Vehicle's latitude at time of occurrence.
LONGITUDE	Numeric (12, 0)	Y	Vehicle's longitude at time of occurrence.
ODOMETER	Integer	Y	Total distance traveled by the vehicle. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
SCHED_DIST_FROM_LAST_GEO_NODE	Integer	Y	Scheduled distance from previous geo node.
DEPARTURE_LOAD	Integer	Y	Passengers on board after departure.
CONFIDENCE	Tinyint (1)	Y	Describes the quality of schedule association based on vehicle status: 0 – Vehicle within 100 meters of this point. 1 – Vehicle more than 100 meters but less than 1000 meters of this point. 2 – Vehicle was "off route" when associated to the schedule.

MDT_SOFTWARE_VERSIONS

Entity Name	MDT_SOFTWARE_VERSIONS
Primary Keys	MDT_SOFTWARE_VERSIONS_ID
Definition	History of the mobile software versions by service date.

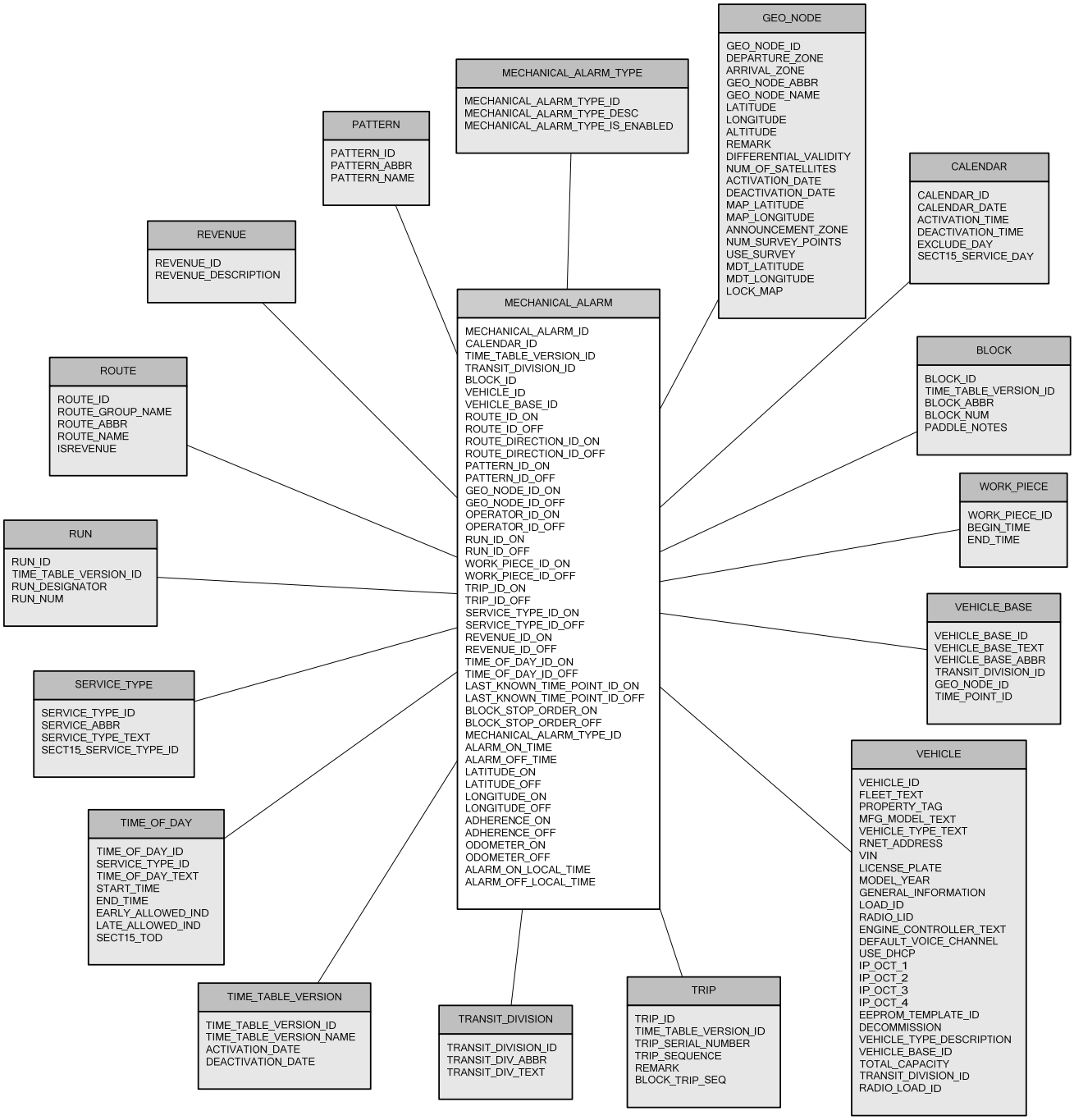


MDT_SOFTWARE_VERSIONS Attributes

Column Name	Data Type	Null	Definition
MDT_SOFTWARE_VERSIONS_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TRANSMITTED_MESSAGE_ID	Bigint	N	Reference to TMDailyLog.LOGGED_MESSAGE.TRANSMITTED_MESSAGE_ID
MESSAGE_TYPE_ID	Numeric (3, 0)	N	FK to MESSAGE_TYPE.MESSAGE_TYPE_ID
LATITUDE	Numeric (12, 0)	Y	Vehicle's latitude at time of occurrence.
LONGITUDE	Numeric (12, 0)	Y	Vehicle's longitude at time of occurrence.
MESSAGE_TIME	Integer	Y	Seconds past midnight the event occurred.
ADHERENCE	Integer	Y	Seconds early (negative) or late.
ODOMETER	Integer	Y	Total distance traveled by the vehicle. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
VALIDITY	Integer	Y	Validity of GPS message.
FIA_VERSION	Integer	Y	Current TransitMaster System: TDMA or ETDMA Modem Version Number Previous TransitMaster System (referred to as GEN 1.0): Version of Flexible Interface Adaptor (FIA) software.
ROUTE_VERSION	Integer	Y	Version of Fixed Route database (MDT Files). Contains a two-byte number: Major x 256 + Minor.
ROUTE_VERSION_MINOR	Integer	Y	Minor release of route version.
MESSAGES_VERSION	Integer	Y	Version of Canned Message Database (RxCndMsg and TxCndMsg files)
MDT_VERSION	Integer	Y	Major release version of the Mobile software.
MDT_SIT_BUILD_VERSION	Integer	Y	SIT build version of the Mobile software.
MDT_MINOR_VERSION	Integer	Y	Minor release version of the Mobile software.
ANNUN_VERSION	Tinyint	Y	Version of Announcement files.
EEBIN_VERSION	Tinyint	Y	Version of the EEPROM data structure. Must be compatible with the MDT_VERSION number.
MDT_COLD_START	Bit	Y	1 = Cold Start, 0 = Warm Start
MDT_COVERT_MODE	Bit	Y	1 = VLU in covert mode.
MDT_PENDING_VERSIONS	Bit	Y	Used to indicate pending versions
MDT_INTERIM_MSG	Bit	Y	Not Used.
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID

MECHANICAL_ALARM

Entity Name	MECHANICAL_ALARM
Primary Keys	MECHANICAL_ALARM_ID
Definition	History of mechanical alarms.

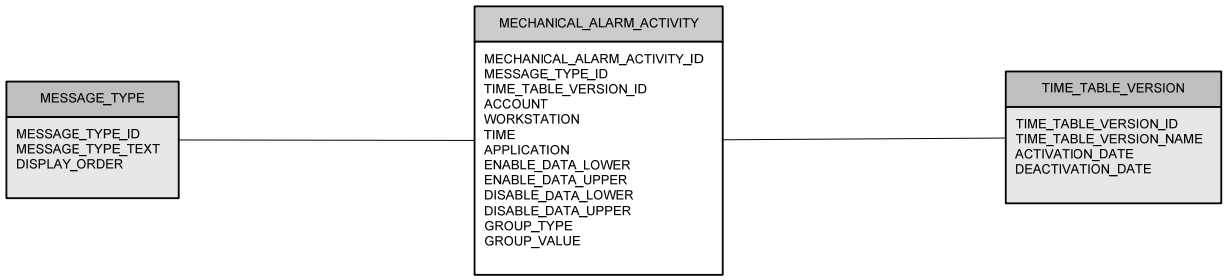


MECHANICAL_ALARM Attributes

Column Name	Data Type	Null	Definition
MECHANICAL_ALARM_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
ROUTE_ID_ON	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_ID_OFF	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID_ON	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
ROUTE_DIRECTION_ID_OFF	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID_ON	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
PATTERN_ID_OFF	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID_ON	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
GEO_NODE_ID_OFF	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID_ON	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
OPERATOR_ID_OFF	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID_ON	Numeric (10, 0)	Y	FK to RUN.RUN_ID
RUN_ID_OFF	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID_ON	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
WORK_PIECE_ID_OFF	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
TRIP_ID_ON	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
TRIP_ID_OFF	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID_ON	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
SERVICE_TYPE_ID_OFF	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
REVENUE_ID_ON	Char (1)	Y	FK to REVENUE.REVENUE_ID
REVENUE_ID_OFF	Char (1)	Y	FK to REVENUE.REVENUE_ID
TIME_OF_DAY_ID_ON	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
TIME_OF_DAY_ID_OFF	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
LAST_KNOWN_TIME_POINT_ID_ON	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
LAST_KNOWN_TIME_POINT_ID_OFF	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
BLOCK_STOP_ORDER_ON	Integer	Y	Chronological order of GEO_NODE_ID_ON within the block.
BLOCK_STOP_ORDER_OFF	Integer	Y	Chronological order of GEO_NODE_ID_OFF within the block.
MECHANICAL_ALARM_TYPE_ID	Integer	N	FK to MECHANICAL_ALARM_TYPE.MECHANICAL_ALARM_TYPE_ID
ALARM_ON_TIME	Datetime	Y	Time the mechanical alarm turned on.
ALARM_OFF_TIME	Datetime	Y	Time the mechanical alarm turned off.
LATITUDE_ON	Numeric (12, 0)	Y	Vehicle's latitude at time of alarm on.
LATITUDE_OFF	Numeric (12, 0)	Y	Vehicle's latitude at time of alarm off.
LONGITUDE_ON	Numeric (12, 0)	Y	Vehicle's longitude at time of alarm on.
LONGITUDE_OFF	Numeric (12, 0)	Y	Vehicle's longitude at time of alarm off.
ADHERENCE_ON	Integer	Y	Seconds early (negative) or late at time of alarm on.
ADHERENCE_OFF	Integer	Y	Seconds early (negative) or late at time of alarm off.
ODOMETER_ON	Integer	Y	Total distance traveled by the vehicle at the time of alarm turning ON. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
ODOMETER_OFF	Integer	Y	Total distance traveled by the vehicle at the time of alarm turning OFF. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
ALARM_ON_LOCAL_TIME	Datetime	Y	Time the mechanical alarm turned on, recorded on the local server.
ALARM_OFF_LOCAL_TIME	Datetime	Y	Time the mechanical alarm turned off, recorded on the local server.

MECHANICAL_ALARM_ACTIVITY

Entity Name	MECHANICAL_ALARM_ACTIVITY
Primary Keys	MECHANICAL_ALARM_ACTIVITY_ID
Definition	History of when mechanical alarms or engine control messages were disabled (not sent) or enabled (sent) by dispatcher.

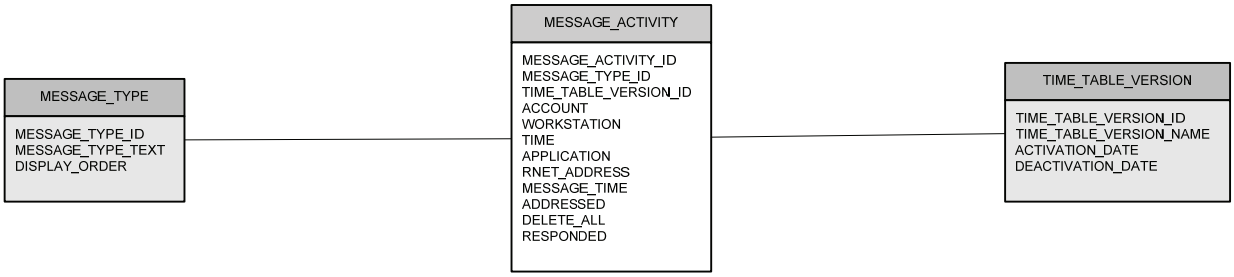


MECHANICAL_ALARM_ACTIVITY Attributes

Column Name	Data Type	Null	Definition
MECHANICAL_ALARM_ACTIVITY_ID	Integer	ID	Unique, system generated identifier.
MESSAGE_TYPE_ID	Numeric (3, 0)	N	FK to MESSAGE_TYPE.MESSAGE_TYPE_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ACCOUNT	Varchar (128)	N	User account name.
WORKSTATION	Varchar (128)	N	Workstation initiating the activity.
TIME	Datetime	N	Time of the activity.
APPLICATION	Varchar (64)	N	Application initiating the activity.
ENABLE_DATA_LOWER	Numeric (10, 0)	Y	Bit field of mechanical alarm(s) disabled by this action.
ENABLE_DATA_UPPER	Numeric (10, 0)	Y	Bit field of mechanical alarm(s) disabled by this action.
DISABLE_DATA_LOWER	Numeric (10, 0)	Y	Bit field of mechanical alarm(s) disabled by this action.
DISABLE_DATA_UPPER	Numeric (10, 0)	Y	Bit field of mechanical alarm(s) disabled by this action.
GROUP_TYPE	Tinyint	N	Number indicator of modified vehicle group type (fleet, model, etc.)
GROUP_VALUE	Integer	N	Number of group related to GROUP_TYPE

MESSAGE_ACTIVITY

Entity Name	MESSAGE_ACTIVITY
Primary Keys	MESSAGE_ACTIVITY_ID
Definition	Records when a message at Bus Ops is "addressed" or "deleted" by a dispatcher.

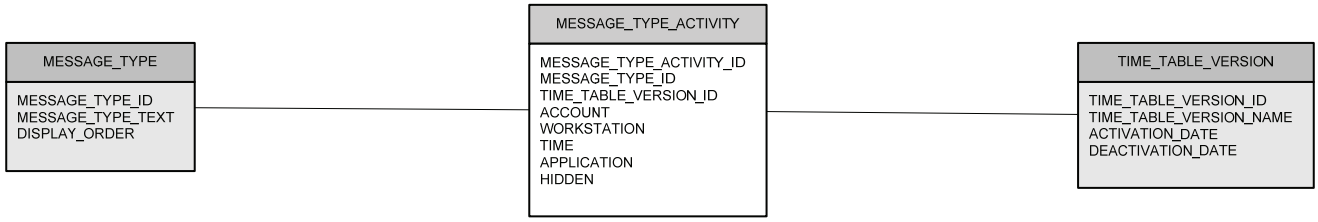


MESSAGE_ACTIVITY Attributes

Column Name	Data Type	Null	Definition
MESSAGE_ACTIVITY_ID	Integer	N	The unique id that identifies each record.
MESSAGE_TYPE_ID	Numeric (3, 0)	Y	FK to MESSAGE_TYPE.MESSAGE_TYPE_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ACCOUNT	Varchar (128)	N	User account name.
WORKSTATION	Varchar (128)	N	Workstation initiating the activity.
TIME	Datetime	N	Time of dispatcher action.
APPLICATION	Varchar (64)	N	Application initiating the activity.
RNET_ADDRESS	Numeric (5, 0)	Y	FK to VEHICLE.RNET_ADDRESS
MESSAGE_TIME	Char (10)	Y	Seconds past midnight of when message was created.
ADDRESSED	Bit (1)	N	1 = Dispatcher addressed the message.
DELETE_ALL	Bit (1)	N	1 = Dispatcher deleted the message.
RESPONDED	Bit (1)	N	1 = Dispatcher responded to the message.

MESSAGE_TYPE_ACTIVITY

Entity Name	MESSAGE_TYPE_ACTIVITY
Primary Keys	MESSAGE_TYPE_ACTIVITY_ID
Definition	Records when a message type is hidden or unhidden. Hidden messages are omitted from the queues in BusOps.

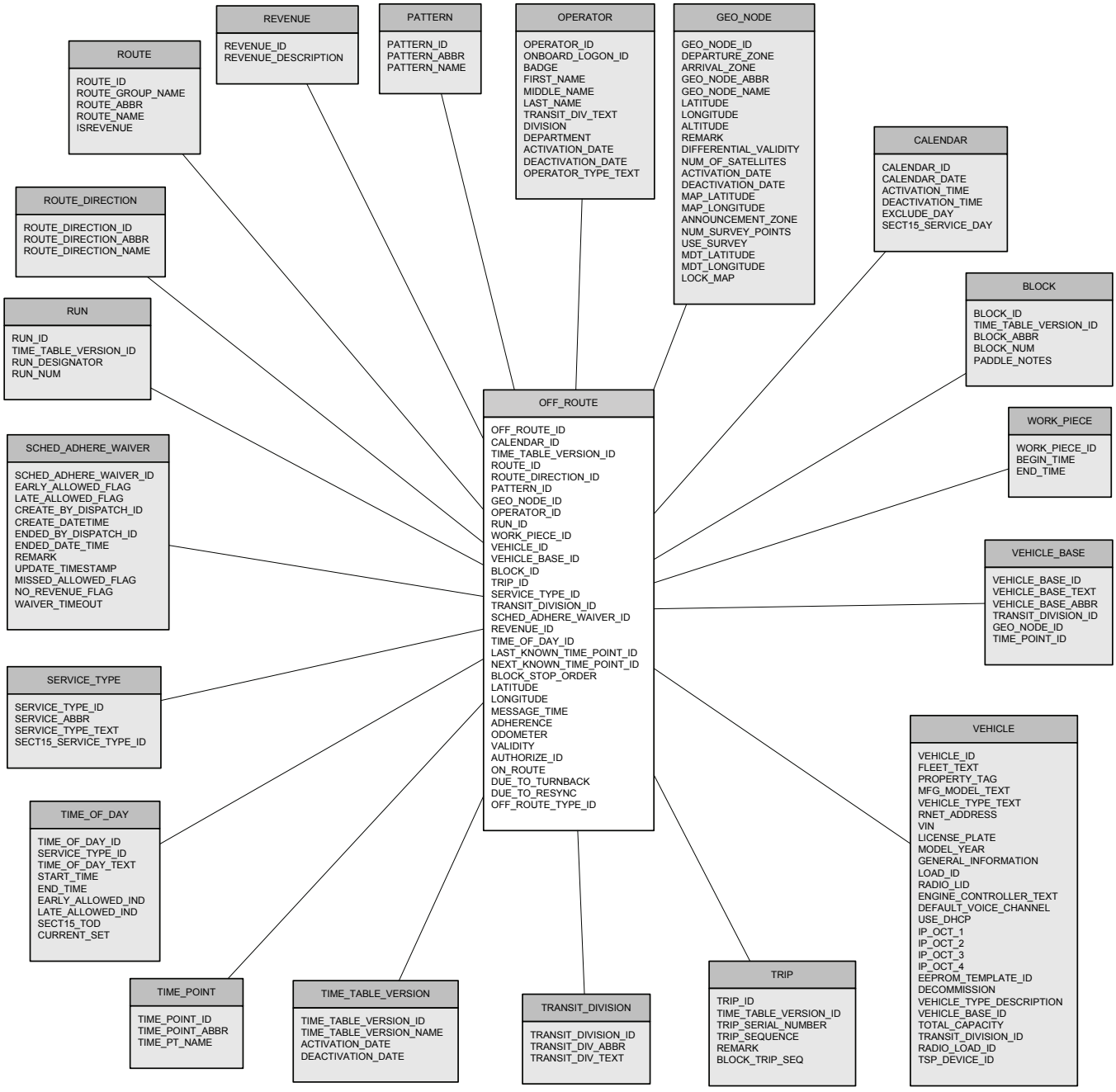


MESSAGE_TYPE_ACTIVITY Attributes

Column Name	Data Type	Null	Definition
MESSAGE_TYPE_ACTIVITY_ID	Integer	N	A unique, system-assigned identifier for each record.
MESSAGE_TYPE_ID	Numeric (3, 0)	N	FK to MESSAGE_TYPE.MESSAGE_TYPE_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TME_TABLE_VERISION.TIME_TABLE_VERSION_ID
ACCOUNT	Varchar (128)	N	User account name.
WORKSTATION	Varchar (128)	N	Workstation initiating the activity.
TIME	Datetime	N	Time action was taken.
APPLICATION	Varchar (64)	N	Application initiating the activity.
HIDDEN	Bit (1)	N	1 = Message type is hidden. 2 = Message type is not hidden.

OFF_ROUTE

Entity Name	OFF_ROUTE
Primary Keys	OFF_ROUTE_ID
Definition	History of all off route messages.

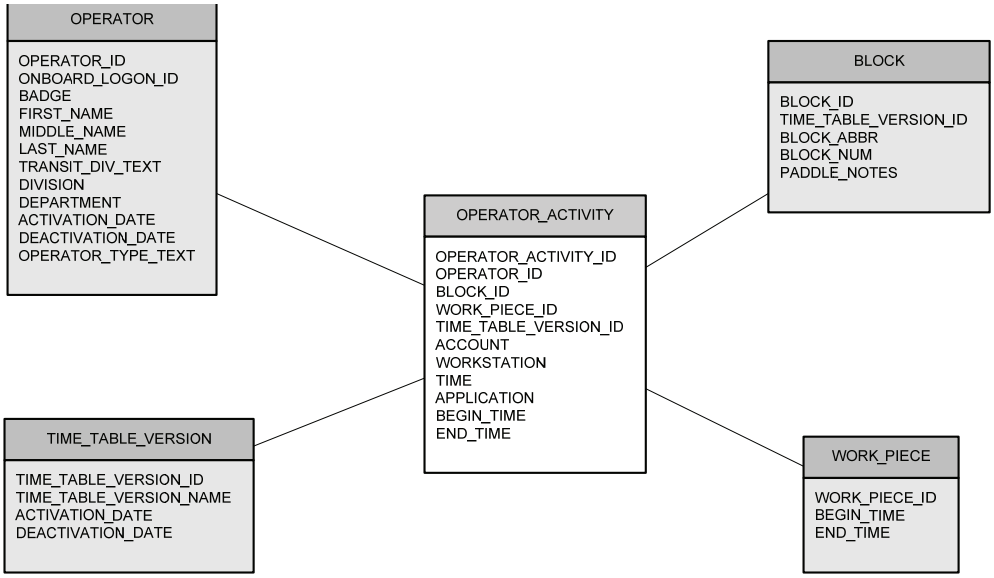


OFF_ROUTE Attributes

Column Name	Data Type	Null	Definition
OFF_ROUTE_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
TRIP_ID	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
SCHED_ADHERE_WAIVER_ID	Numeric (9, 0)	Y	FK to SCHED_ADHERE_WAIVER.SCHED_ADHERE_WAIVER_ID
REVENUE_ID	Char (1)	Y	FK to REVENUE.REVENUE_ID
TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
LAST_KNOWN_TIME_POINT_ID	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
NEXT_KNOWN_TIME_POINT_ID	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
BLOCK_STOP_ORDER	Integer	Y	Chronological order of this stop within the block.
LATITUDE	Numeric (12, 0)	Y	Vehicle's latitude at time of occurrence.
LONGITUDE	Numeric (12, 0)	Y	Vehicle's longitude at time of occurrence.
MESSAGE_TIME	Integer	Y	Seconds past midnight when the event occurred.
ADHERENCE	Integer	Y	Seconds early (negative) or late.
ODOMETER	Integer	Y	Total distance traveled by the vehicle. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
VALIDITY	Smallint	Y	Validity of GPS message.
AUTHORIZE_ID	tinyint	Y	System internal parameter to correlate on route and off route events.
ON_ROUTE	tinyint	Y	1= vehicle back on route, 0= vehicle off route
DUE_TO_TURNBACK	tinyint	Y	1= on/off route due to turnback.
DUE_TO_RESYNC	tinyint	Y	1= off route due to driver pressing resync.
OFF_ROUTE_TYPE_ID	Integer	Y	FK to OFF_ROUTE_TYPE.OFF_ROUTE_TYPE_ID

OPERATOR_ACTIVITY

Entity Name	OPERATOR_ACTIVITY
Primary Keys	OPERATOR_ACTIVITY_ID
Definition	History of vehicle operator replacements by dispatcher.

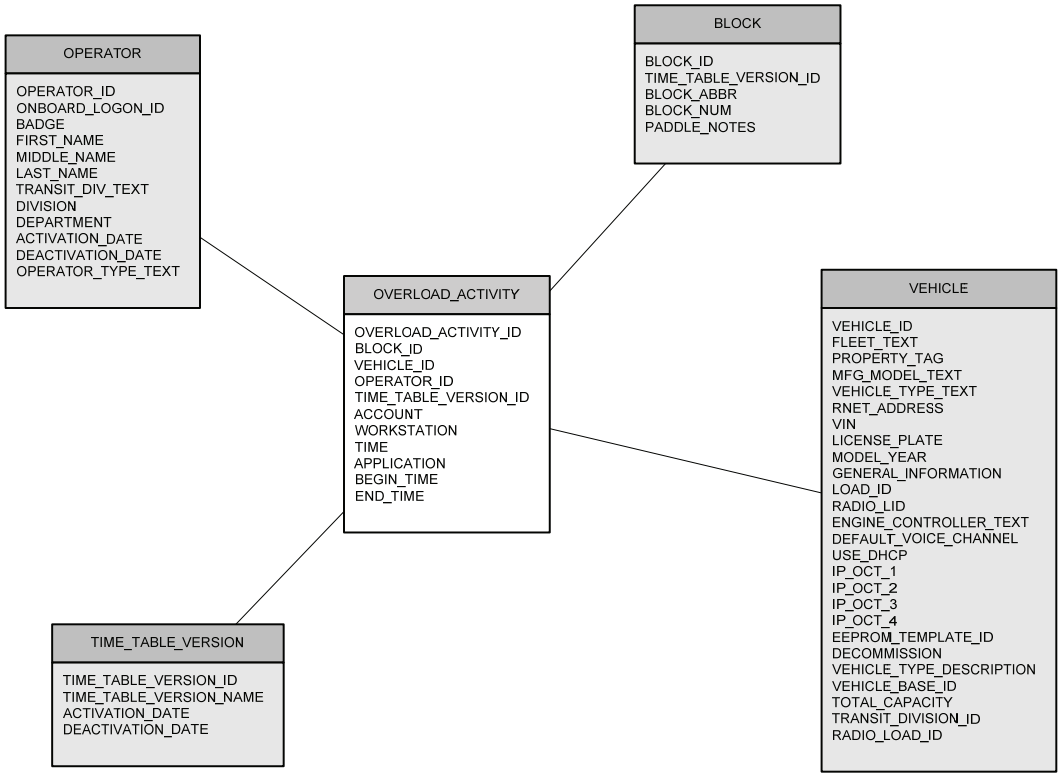


OPERATOR_ACTIVITY Attributes

Column Name	Data Type	Null	Definition
OPERATOR_ACTIVITY_ID	Integer	ID	Unique, system generated identifier.
OPERATOR_ID	Numeric (5, 0)	N	FK to OPERATOR.OPERATOR_ID
BLOCK_ID	Numeric (10, 0)	N	FK to BLOCK.BLOCK_ID
WORK_PIECE_ID	Numeric (10, 0)	N	FK to WORK_PIECE.WORK_PIECE_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ACCOUNT	Varchar (128)	N	User account name.
WORKSTATION	Varchar (128)	N	Workstation initiating the activity.
TIME	Datetime	N	Time of the activity.
APPLICATION	Varchar (64)	N	Application initiating the activity.
BEGIN_TIME	Numeric (10, 0)	N	Begin replacement time.
END_TIME	Numeric (10, 0)	N	End replacement time.

OVERLOAD_ACTIVITY

Entity Name	OVERLOAD_ACTIVITY
Primary Keys	OVERLOAD_ACTIVITY_ID
Definition	History of overload vehicle assignments by dispatcher.

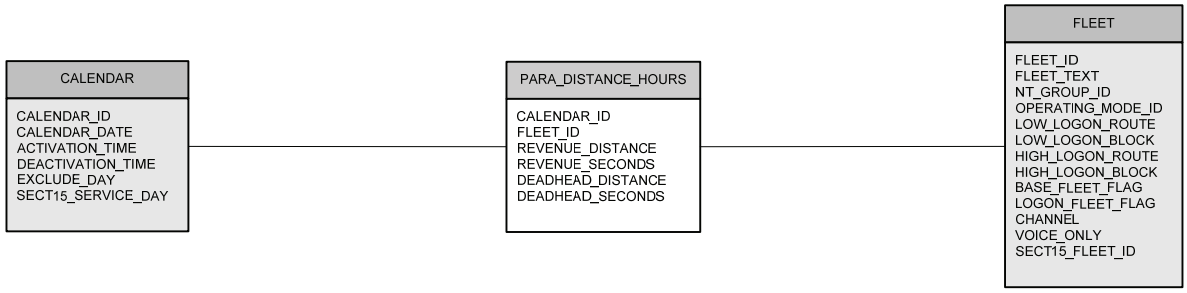


OVERLOAD_ACTIVITY Attributes

Column Name	Data Type	Null	Definition
OVERLOAD_ACTIVITY_ID	Integer	ID	Unique, system generated identifier.
BLOCK_ID	Numeric (10, 0)	N	FK to BLOCK.BLOCK_ID
VEHICLE_ID	Numeric (5, 0)	N	FK to VEHICLE.VEHICLE_ID
OPERATOR_ID	Numeric (5, 0)	N	FK to OPERATOR.OPERATOR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ACCOUNT	Varchar (128)	N	User account name.
WORKSTATION	Varchar (128)	N	Workstation initiating the activity.
TIME	Datetime	N	Time of the activity.
APPLICATION	Varchar (64)	N	Application initiating the activity.
BEGIN_TIME	Numeric (10, 0)	N	Begin time of overload activity.
END_TIME	Numeric (10, 0)	N	End time of overload activity.

PARA_DISTANCE_HOURS

Entity Name	PARA_DISTANCE_HOURS
Primary Keys	None
Definition	History of paratransit distance (miles or kilometers) and time by service day.

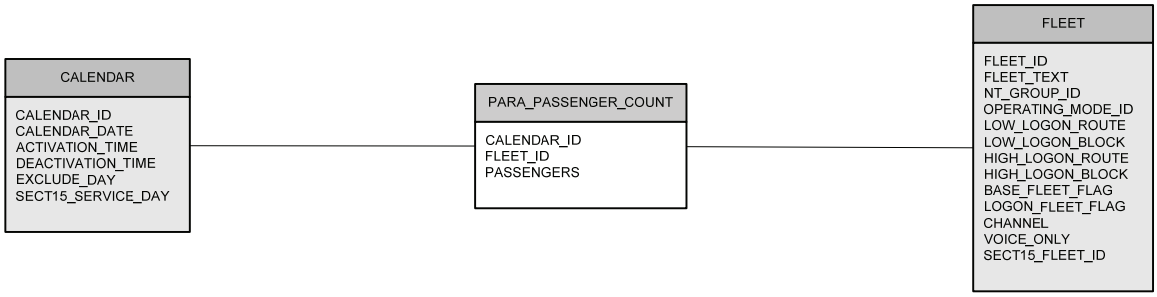


PARA_DISTANCE_HOURS Attributes

Column Name	Data Type	Null	Definition
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
FLEET_ID	Numeric (5, 0)	N	FK to FLEET.FLEET_ID
REVENUE_DISTANCE	Numeric (10, 2)	N	Revenue miles or kilometers traveled by all paratransit vehicles.
REVENUE_SECONDS	Integer	N	Revenue seconds all paratransit vehicles were running.
DEADHEAD_DISTANCE	Numeric (10, 2)	N	Deadhead miles or kilometers traveled by paratransit all vehicles.
DEADHEAD_SECONDS	Integer	N	Deadhead seconds all paratransit vehicles were running.

PARA_PASSENGER_COUNT

Entity Name	PARA_PASSENGER_COUNT
Primary Keys	None
Definition	Passenger count history on paratransit vehicles for a given service day.

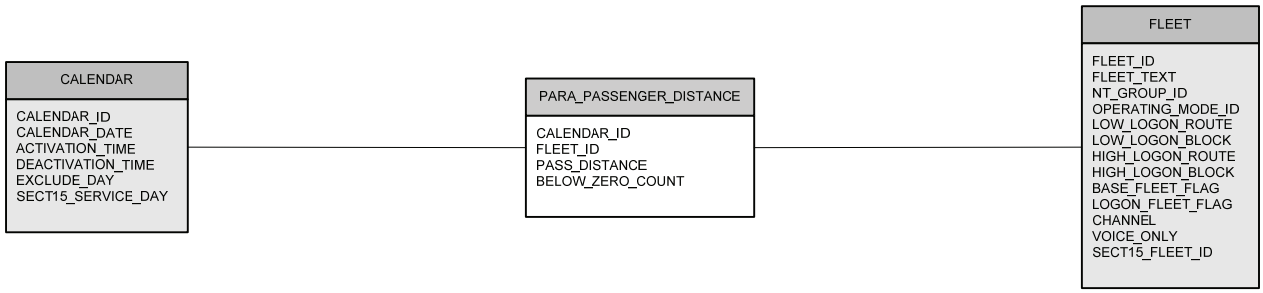


PARA_PASSENGER_COUNT Attributes

Column Name	Data Type	Null	Definition
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
FLEET_ID	Numeric (5, 0)	N	FK to FLEET.FLEET_ID
PASSENGERS	Integer	N	Total number of passengers.

PARA_PASSENGER_DISTANCE

Entity Name	PARA_PASSENGER_DISTANCE
Primary Keys	None
Definition	Distance (miles or kilometers) traveled on paratransit vehicles for a given service day.

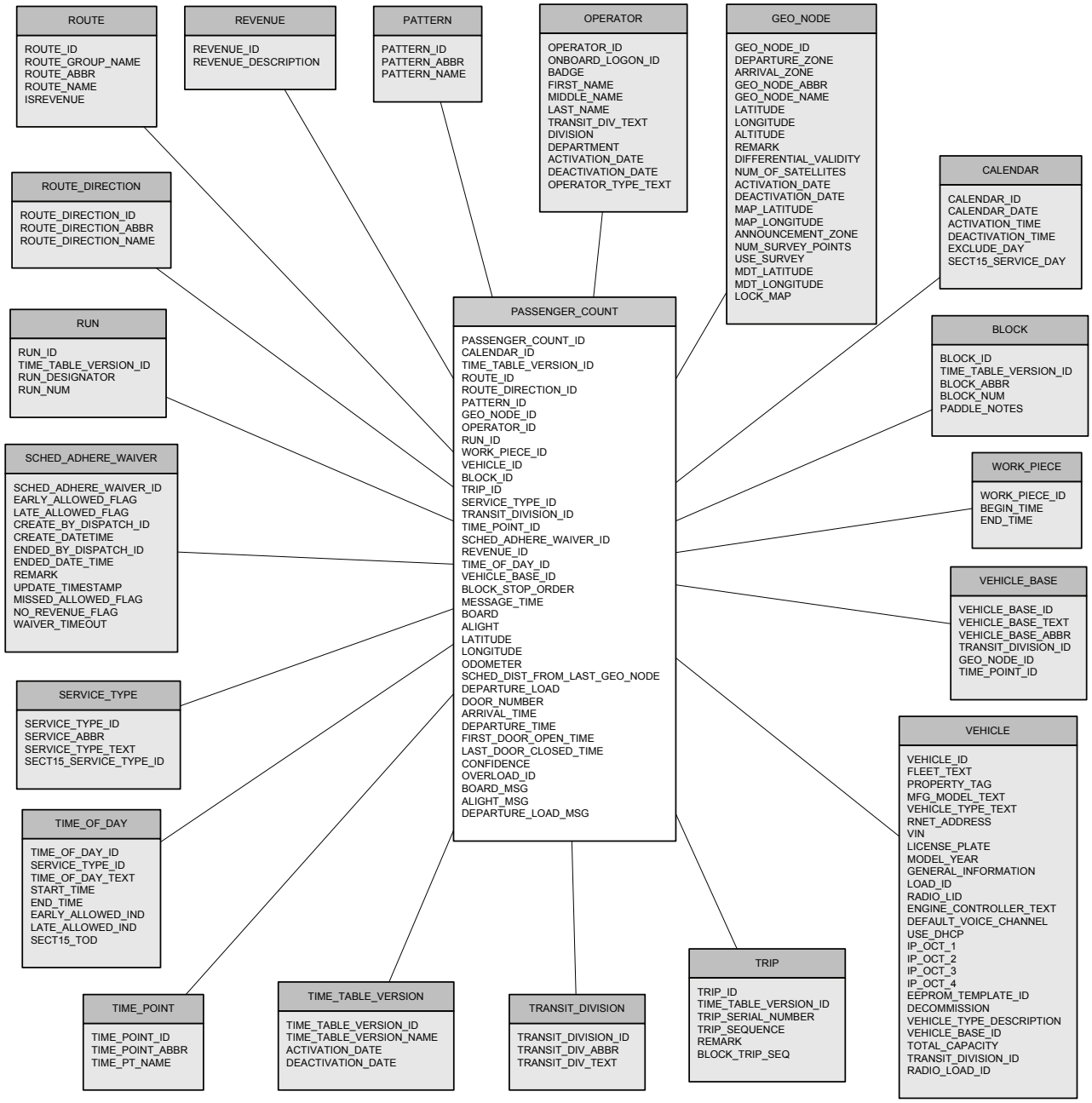


PARA_PASSENGER_DISTANCE Attributes

Column Name	Data Type	Null	Definition
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
FLEET_ID	Numeric (5, 0)	N	FK to FLEET.FLEET_ID
PASS_DISTANCE	Numeric (10, 2)	N	Total number of miles or kilometers traveled.
BELOW_ZERO_COUNT	Integer	N	Count of times passenger counter values fell below zero.

PASSENGER_COUNT

Entity Name	PASSENGER_COUNT
Primary Keys	PASSENGER_COUNT_ID
Definition	History of passenger activity per vehicle for each scheduled stop. Passenger counts are based on passenger counter data and vehicle full / empty messages.



PASSENGER_COUNT Attributes

Column Name	Data Type	Null	Definition
PASSENGER_COUNT_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID

Fact Tables

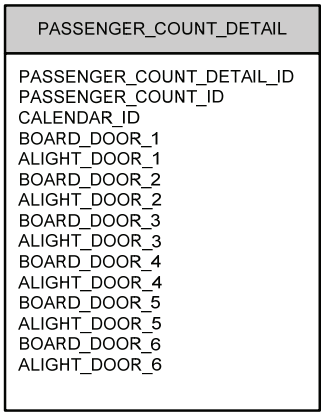
Column Name	Data Type	Null	Definition
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
BLOCK_ID	Numeric (10, 0)	N	FK to BLOCK.BLOCK_ID
TRIP_ID	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
TIME_POINT_ID	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
SCHED_ADHERE_WAIVER_ID	Numeric (9, 0)	Y	FK to SCHED_ADHERE_WAIVER.SCHED_ADHERE_WAIVER_ID
REVENUE_ID	Char (1)	Y	FK to REVENUE.REVENUE_ID
TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
BLOCK_STOP_ORDER	Integer	N	Chronological order of stop within the block.
MESSAGE_TIME	Integer	Y	Time of last door closure in seconds past midnight.
BOARD	Integer	N	Number of passengers boarding the vehicle.
ALIGHT	Integer	N	Number of passengers alighting the vehicle.
LATITUDE	Numeric (12, 0)	Y	Vehicle's latitude at time of last door closure..
LONGITUDE	Numeric (12, 0)	Y	Vehicle's longitude at time of last door closure..
ODOMETER	Integer	Y	Total distance traveled by the vehicle at the time of last door closure. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
SCHED_DIST_FROM_LAST_GEO_NODE	Integer	Y	Scheduled distance from previous geo node.
DEPARTURE_LOAD	Integer	Y	Passengers on board after departure. *Note*: If value is less than zero, the after adjustment value was adjusted to prevent negative values.
DOOR_NUMBER[1]	Tinyint	Y	*Obsolete column*. Refer to PASSENGER_COUNT_DETAILS table for verbose door information.
ARRIVAL_TIME[1]	Integer	Y	Actual time of arrival, in seconds past midnight.
DEPARTURE_TIME[1]	Integer	Y	Actual time of departure, in seconds past midnight.
FIRST_DOOR_OPEN_TIME[1]	Integer	Y	Time of the first door opening at this stop, in seconds past midnight.
LAST_DOOR_CLOSED_TIME[1]	Integer	Y	Time of the last door closing at this stop, in seconds past midnight.
CONFIDENCE	Tinyint (1)	Y	Describes the quality of stop association based on vehicle status: 0 – Vehicle within 100 meters of this point. 1 – Vehicle more than 100 meters but less than 1000 meters of this point. 2 – Vehicle was "off route" when associated to the schedule.
OVERLOAD_ID	Integer	Y	Overload number if on an overloaded block.
BOARD_MSG	Numeric (10, 0)	Y	Number of passengers boarding the vehicle. If **Adjust PC Count at Trip Change** property configuration value is enabled, this column is updated and the adjusted value is loaded into the BOARD column.
ALIGHT_MSG	Numeric (10, 0)	Y	Number of passengers alighting the vehicle. If **Adjust PC Count at Trip Change** property configuration value is enabled, this column is updated and the adjusted value is loaded into the ALIGHT column.
DEPARTURE_LOAD_MSG	Numeric (10, 0)	Y	Number of passengers onboard after departure. If **Adjust PC Count at Trip Change** property configuration value is enabled, this column is updated and the adjusted value is loaded into the DEPARTURE_LOAD column.

[1] - Data only available when using the verbose passenger count message (message type ID 128).

Refer to *System: Passenger Counting* section in the **EEPROM BIN File** for further information.

PASSENGER_COUNT_DETAIL

Entity Name	PASSENGER_COUNT_DETAIL
Primary Keys	None
Definition	History of the number of passengers per door on vehicles for verbose passenger count message.

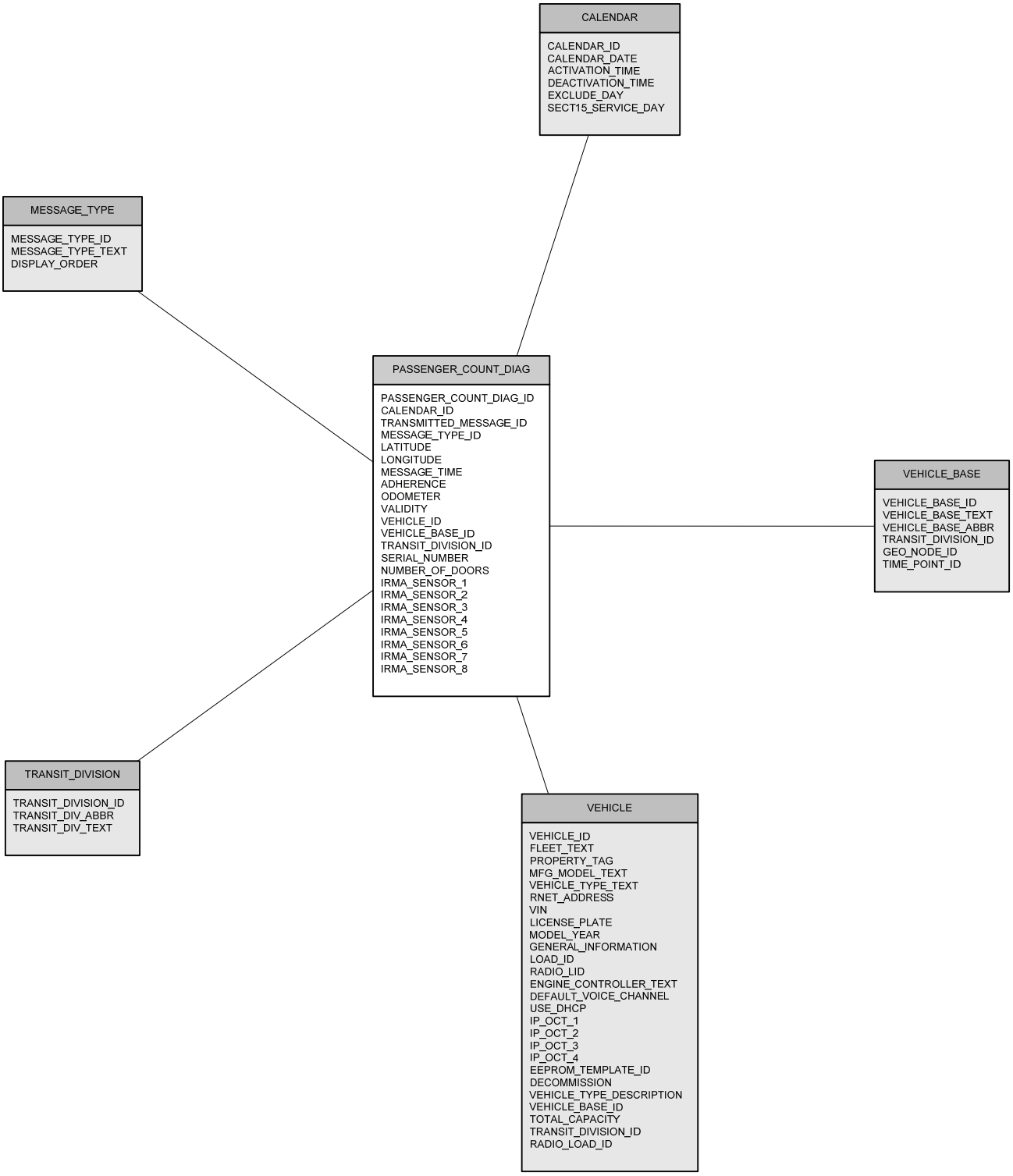


PASSENGER_COUNT_DETAIL Attributes

Column Name	Data Type	Null	Definition
PASSENGER_COUNT_DETAIL_ID	Integer	ID	Unique, system generated identifier.
PASSENGER_COUNT_ID	Integer	N	FK to PASSENGER_COUNT.PASSENGER_COUNT_ID.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
BOARD_DOOR_1	Integer	Y	Number of passengers boarding door 1.
ALIGHT_DOOR_1	Integer	Y	Number of passengers exiting door 1.
BOARD_DOOR_2	Integer	Y	Number of passengers boarding door 2.
ALIGHT_DOOR_2	Integer	Y	Number of passengers exiting door 2.
BOARD_DOOR_3	Integer	Y	Number of passengers boarding door 3.
ALIGHT_DOOR_3	Integer	Y	Number of passengers exiting door 3.
BOARD_DOOR_4	Integer	Y	Number of passengers boarding door 4.
ALIGHT_DOOR_4	Integer	Y	Number of passengers exiting door 4.
BOARD_DOOR_5	Integer	Y	Number of passengers boarding door 5.
ALIGHT_DOOR_5	Integer	Y	Number of passengers exiting door 5.
BOARD_DOOR_6	Integer	Y	Number of passengers boarding door 6.
ALIGHT_DOOR_6	Integer	Y	Number of passengers exiting door 6.

PASSENGER_COUNT_DIAG

Entity Name	PASSENGER_COUNT_DIAG
Primary Keys	PASSENGER_COUNT_DIAG_ID
Definition	History of IRMA sensor messages.

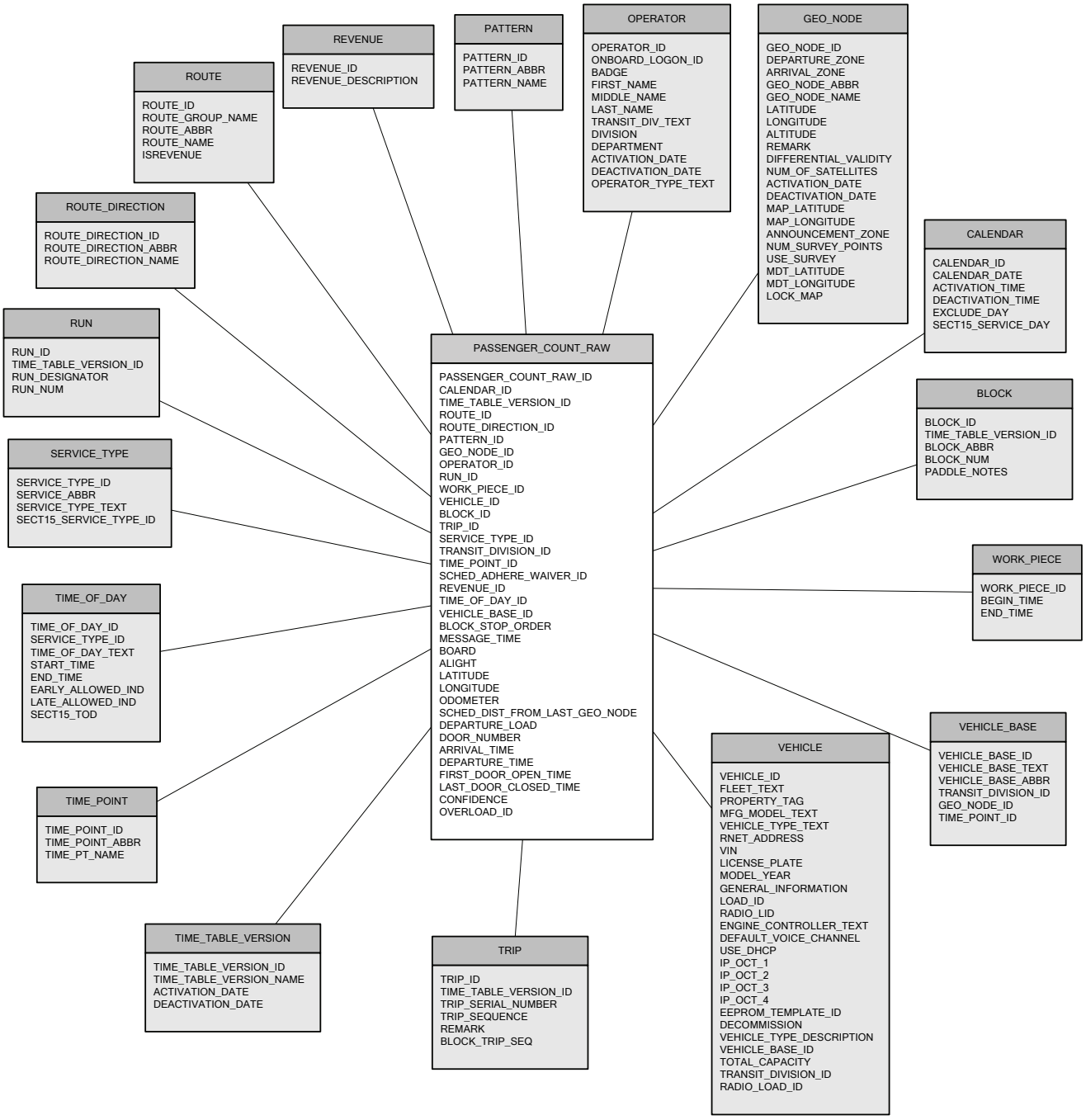


PASSENGER_COUNT_DIAG Attributes

Column Name	Data Type	Null	Definition
PASSENGER_COUNT_DIAG_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TRANSMITTED_MESSAGE_ID	Bigint	N	Reference to TMDailyLog.LOGGED_MESSAGE.TRANSMITTED_MESSAGE_ID
MESSAGE_TYPE_ID	Numeric (3, 0)	N	FK to MESSAGE_TYPE.MESSAGE_TYPE_ID
LATITUDE	Numeric (12, 0)	Y	Vehicle's latitude at time of occurrence.
LONGITUDE	Numeric (12, 0)	Y	Vehicle's longitude at time of occurrence.
MESSAGE_TIME	Integer	Y	Seconds past midnight the event occurred.
ADHERENCE	Integer	Y	Seconds early (negative) or late.
ODOMETER	Integer	Y	Total distance traveled by the vehicle. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
VALIDITY	Integer	Y	Validity of GPS message.
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
SERIAL_NUMBER	Varchar (7)	Y	The serial number from the manufacturer.
NUMBER_OF_DOORS	Numeric (3, 0)	Y	The number of doors on the vehicle equipped with passenger counters.
IRMA_SENSOR_1	Numeric (1, 0)	Y	Sensor for IRMA slot 1.
IRMA_SENSOR_2	Numeric (1, 0)	Y	Sensor for IRMA slot 2.
IRMA_SENSOR_3	Numeric (1, 0)	Y	Sensor for IRMA slot 3.
IRMA_SENSOR_4	Numeric (1, 0)	Y	Sensor for IRMA slot 4.
IRMA_SENSOR_5	Numeric (1, 0)	Y	Sensor for IRMA slot 5.
IRMA_SENSOR_6	Numeric (1, 0)	Y	Sensor for IRMA slot 6.
IRMA_SENSOR_7	Numeric (1,0)	Y	Sensor for IRMA slot 7.
IRMA_SENSOR_8	Numeric (1, 0)	Y	Sensor for IRMA slot 8.

PASSENGER_COUNT_RAW

Entity Name	PASSENGER_COUNT_RAW
Primary Keys	PASSENGER_COUNT_RAW_ID
Definition	History of the number of passengers on vehicles that could not be associated with a scheduled stop. Passenger counts are based upon passenger counter data.



PASSENGER_COUNT_RAW Attributes

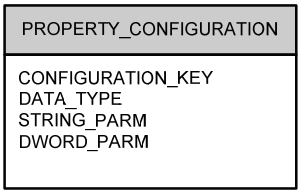
Column Name	Data Type	Null	Definition
PASSENGER_COUNT_RAW_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	Y	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
TRIP_ID	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
TIME_POINT_ID	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
SCHED_ADHERE_WAIVER_ID	Numeric (9, 0)	Y	FK to SCHED_ADHERE_WAIVER.SCHED_ADHERE_WAIVER_ID
REVENUE_ID	Char (1)	Y	FK to REVENUE.REVENUE_ID
TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
BLOCK_STOP_ORDER	Integer	Y	Chronological order of stop within the block.
MESSAGE_TIME	Integer	Y	Seconds past midnight when the event occurred.
BOARD	Integer	N	Number of passengers boarding the vehicle.
ALIGHT	Integer	N	Number of passengers alighting the vehicle.
LATITUDE	Numeric (12, 0)	Y	Vehicle's latitude at time of occurrence.
LONGITUDE	Numeric (12, 0)	Y	Vehicle's longitude at time of occurrence.
ODOMETER	Integer	Y	Total distance traveled by the vehicle. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
SCHED_DIST_FROM_LAST_GEO_NODE	Integer	Y	Scheduled distance from previous geo node.
DEPARTURE_LOAD	Integer	Y	Passengers on board after departure.
DOOR_NUMBER[1]	Tinyint	Y	Door used to board or alight.
ARRIVAL_TIME[1]	Integer	Y	Actual time of arrival, in seconds past midnight.
DEPARTURE_TIME[1]	Integer	Y	Actual time of departure, in seconds past midnight.
FIRST_DOOR_OPEN_TIME[1]	Integer	Y	Time of the first door opening at this stop, in seconds past midnight.
LAST_DOOR_CLOSED_TIME[1]	Integer	Y	Time of the last door closing at this stop, in seconds past midnight.
CONFIDENCE	Tinyint (1)	Y	Describes the quality of schedule association based on vehicle status. 0 – Vehicle within 100 meters of this point. 1 –Vehicle more than 100 meters but less than 1000 meters of this point. 2 –Vehicle was "off route" when associated to the schedule.
OVERLOAD_ID	Integer	Y	Overload number if on an overloaded block.

[1] – Data only available when using the verbose passenger count message (message type ID 128).

Refer to *System: Passenger Counting* section in the **EEPROM BIN File** for further information.

PROPERTY_CONFIGURATION

Entity Name	PROPERTY_CONFIGURATION
Primary Keys	None
Definition	Storage of locally configurable application constants.

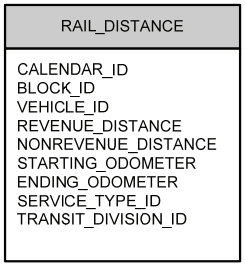


PROPERTY_CONFIGURATION Attributes

Column Name	Data Type	Null	Definition
CONFIGURATION_KEY	Varchar (255)	N	Unique identifier.
DATA_TYPE	Numeric (3, 0)	N	1 = 1-byte (DWORD_PARM is 0 through 255) 2 = 2-byte (DWORD_PARM is 0 through 65,535) 4 = 4-byte (DWORD_PARM is 0 through 4,294,967,295) 8 = string
STRING_PARM	Varchar (2000)	Y	Populated when DATA_TYPE is 8.
DWORD_PARM	Numeric (10, 0)	Y	Populated when DATA_TYPE is 1, 2, or 4.

RAIL_DISTANCE

Entity Name	RAIL_DISTANCE
Primary Keys	None
Definition	History of distance (miles or kilometers) traveled by all rail vehicles.

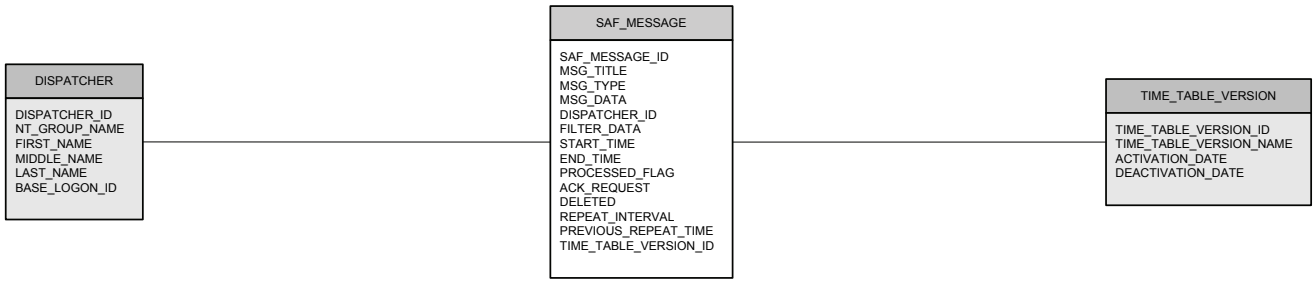


RAIL_DISTANCE Attributes

Column Name	Data Type	Null	Definition
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
BLOCK_ID	Numeric (10, 0)	N	FK to BLOCK.BLOCK_ID
VEHICLE_ID	Numeric (5, 0)	N	FK to VEHICLE.VEHICLE_ID
REVENUE_DISTANCE	Numeric (7, 3)	N	Number of revenue miles/kilometers traveled by rail vehicles.
NONREVENUE_DISTANCE	Numeric (7,3)	N	Number of non-revenue miles/kilometers traveled by rail vehicles.
STARTING_ODOMETER	Integer	N	Total distance traveled by the vehicle at the start of a block or run. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
ENDING_ODOMETER	Integer	N	Total distance traveled by the vehicle at the end of a block or run. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	N	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID

SAF_MESSAGE

Entity Name	SAF_MESSAGE
Primary Keys	SAF_MESSAGE_ID
Definition	History of store and forward messages.



SAF_MESSAGE Attributes

Column Name	Data Type	Null	Definition
SAF_MESSAGE_ID	Integer	N	Unique, system generated identifier.
MSG_TITLE	Varchar (255)	Y	The text description for the message.
MSG_TYPE	Smallint	Y	The type of message - text or canned.
MSG_DATA	Varchar (512)	Y	The content of the message.
DISPATCHER_ID	Numeric (5, 0)	N	FK to DISPATCHER.DISPATCHER_ID
FILTER_DATA	Varchar (512)	Y	The data that specifies which destinations are included in the broadcast.
START_TIME	Datetime	Y	The start time of the message broadcast.
END_TIME	Datetime	Y	The end time of the message broadcast.
PROCESSED_FLAG	Smallint	N	Indicates if this message has been sent to anyone within the target group yet. 0 - no 1 - yes
ACK_REQUEST	Tinyint	N	Indicates if an ACK to the message is required. 0 - no 1 - yes
DELETED	Bit	N	Indicates if the message was deleted: 0 - no 1 - yes
REPEAT_INTERVAL	Integer	Y	How often to repeat the message, in minutes.
PREVIOUS_REPEAT_TIME	Datetime	Y	Timestamp of the last time message was repeated.
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID

SCHED_ADHERE_WAIVER

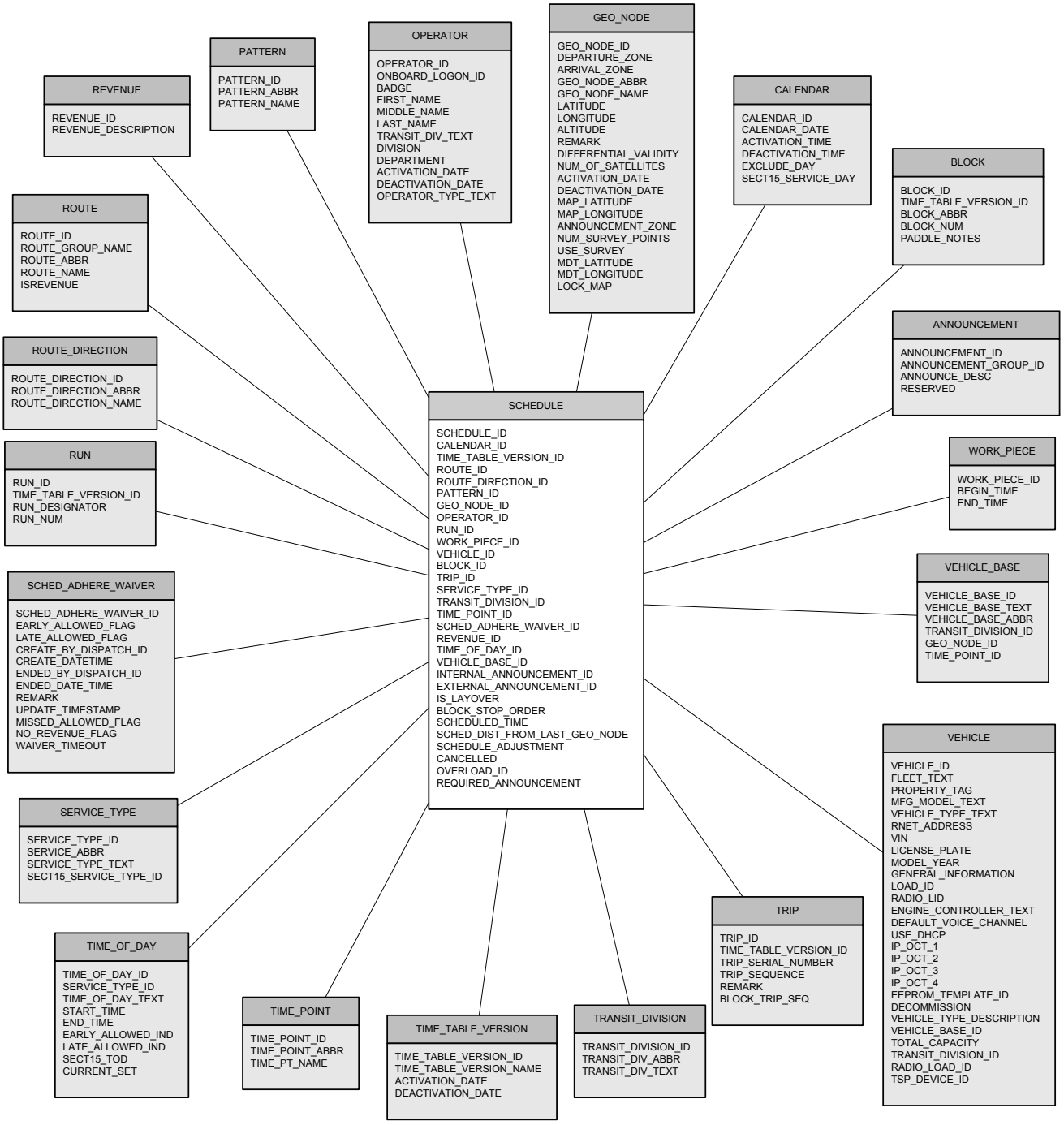
Entity Name	SCHED_ADHERE_WAIVER
Primary Keys	SCHED_ADHERE_WAIVER_ID
Definition	History of schedule adherence waivers that suppressed schedule adherence warning messages while in effect.

SCHED_ADHERE_WAIVER Attributes

Column Name	Data Type	Null	Definition
SCHED_ADHERE_WAIVER_ID	Numeric (9, 0)	N	Unique, system generated identifier.
EARLY_ALLOWED_FLAG	Numeric (1, 0)	Y	Waiver to allow early arrival. Ignore adherence warning message.
LATE_ALLOWED_FLAG	Numeric (1, 0)	Y	Waiver to allow late departure. Ignore adherence warning message.
CREATE_BY_DISPATCH_ID	Numeric (5, 0)	Y	FK to DISPATCHER.DISPATCHER_ID
CREATE_DATETIME	Datetime	Y	The date and time the waiver was created.
ENDED_BY_DISPATCH_ID	Numeric (5, 0)	Y	FK to DISPATCHER.DISPATCHER_ID
ENDED_DATE_TIME	Datetime	Y	The date and time the waiver was discontinued or dismissed.
REMARK	Varchar (2000)	Y	Free text remark.
UPDATE_TIMESTAMP	Datetime	Y	Date/Time of last modification to this record.
MISSED_ALLOWED_FLAG	Numeric (1, 0)	Y	1 if timepoint crossing may be missed.
NO_REVENUE_FLAG	Bit	Y	1 if timepoint crossing is on a non-revenue section.
WAIVER_TIMEOUT	Smallint	Y	Timeout value in minutes for off-route waivers.

SCHEDULE

Entity Name	SCHEDULE
Primary Keys	SCHEDULE_ID
Definition	History of all stops scheduled for all blocks in a service day.

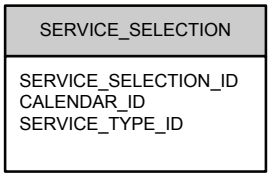


SCHEDULE Attributes

Column Name	Data Type	Null	Definition
SCHEDULE_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
TRIP_ID	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
TIME_POINT_ID	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
SCHED_ADHERE_WAIVER_ID	Numeric (9, 0)	Y	FK to SCHED_ADHERE_WAIVER.SCHED_ADHERE_WAIVER_ID
REVENUE_ID	Char (1)	Y	FK to REVENUE.REVENUE_ID
TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
INTERNAL_ANNOUNCEMENT_ID	Numeric (5, 0)	Y	FK to ANNOUNCEMENT.ANNOUNCEMENT_ID.
EXTERNAL_ANNOUNCEMENT_ID	Numeric (5, 0)	Y	FK to ANNOUNCEMENT.ANNOUNCEMENT_ID
IS_LAYOVER	Bit	Y	1 = The time point is a layover point. 0 = The time point is not a layover point.
BLOCK_STOP_ORDER	Integer	N	Chronological order of stop within the block.
SCHEDULED_TIME	Numeric (10, 0)	Y	Seconds past midnight the event was scheduled to occur.
SCHED_DIST_FROM_LAST_GEO_NODE	Integer	Y	Scheduled distance from previous geo node.
SCHEDULE_ADJUSTMENT	Integer	Y	Type of service adjustment (internal).
CANCELLED	Bit	Y	1 = Stop was cancelled.
OVERLOAD_ID	Integer	Y	Overload number if on an overloaded block.
REQUIRED_ANNOUNCEMENT	Numeric (1, 0)	Y	Flag that Indicates whether an announcement is ADA required.

SERVICE_SELECTION

Entity Name	SERVICE_SELECTION
Primary Keys	None
Definition	The service type(s) categories that are active for the given calendar service day.

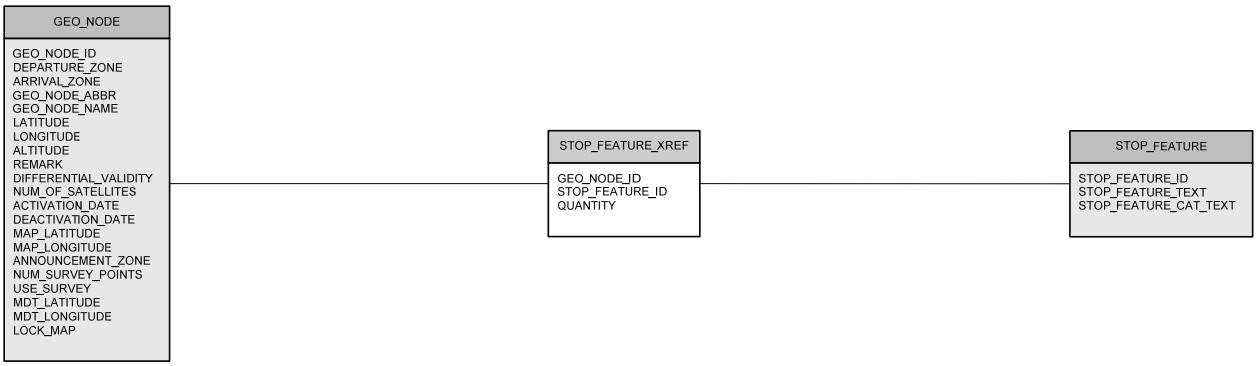


SERVICE_SELECTION Attributes

Column Name	Data Type	Null	Definition
SERVICE_SELECTION_ID	Integer	N	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
SERVICE_TYPE_ID	Numeric (3)	N	FK to SERVICE_TYPE.SERVICE_TYPE_ID

STOP_FEATURE_XREF

Entity Name	STOP_FEATURE_XREF
Primary Keys	None
Definition	A reference table between stops and stop features.

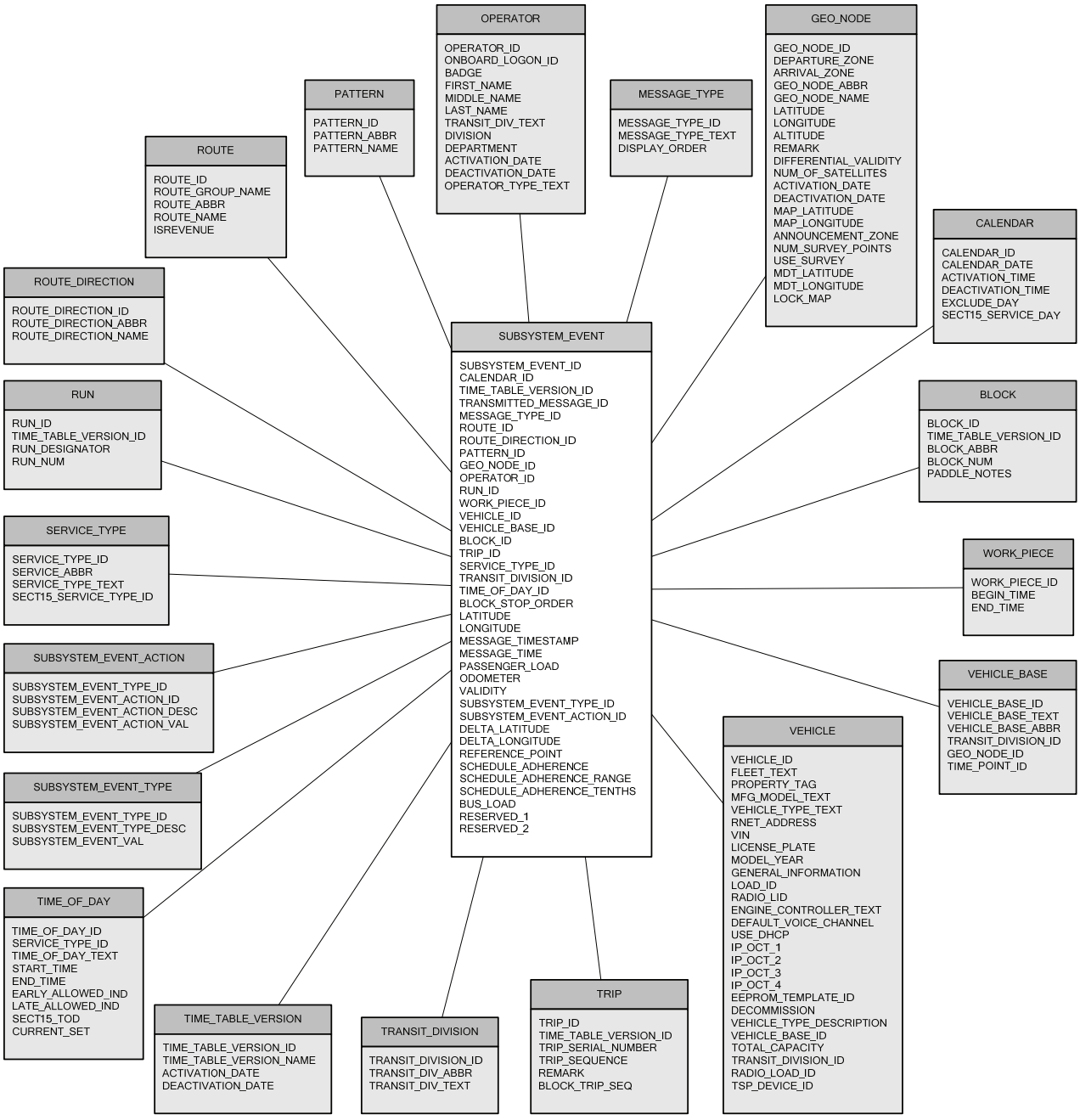


STOP_FEATURE_XREF Attributes

Column Name	Data Type	Null	Definition
GEO_NODE_ID	Numeric (10, 0)	N	FK to GEO_NODE.GEO_NODE_ID
STOP_FEATURE_ID	Numeric (3, 0)	N	FK to STOP_FEATURE.STOP_FEATURE_ID
QUANTITY	Numeric (2, 0)	Y	The number of stop features associated with this stop. (i.e. 4 park benches).

SUBSYSTEM_EVENT

Entity Name	SUBSYSTEM_EVENT
Primary Keys	SUBSYSTEM_EVENT_ID
Definition	Contains events generated from the mobile. Configurable route, time, or location settings trigger the events.

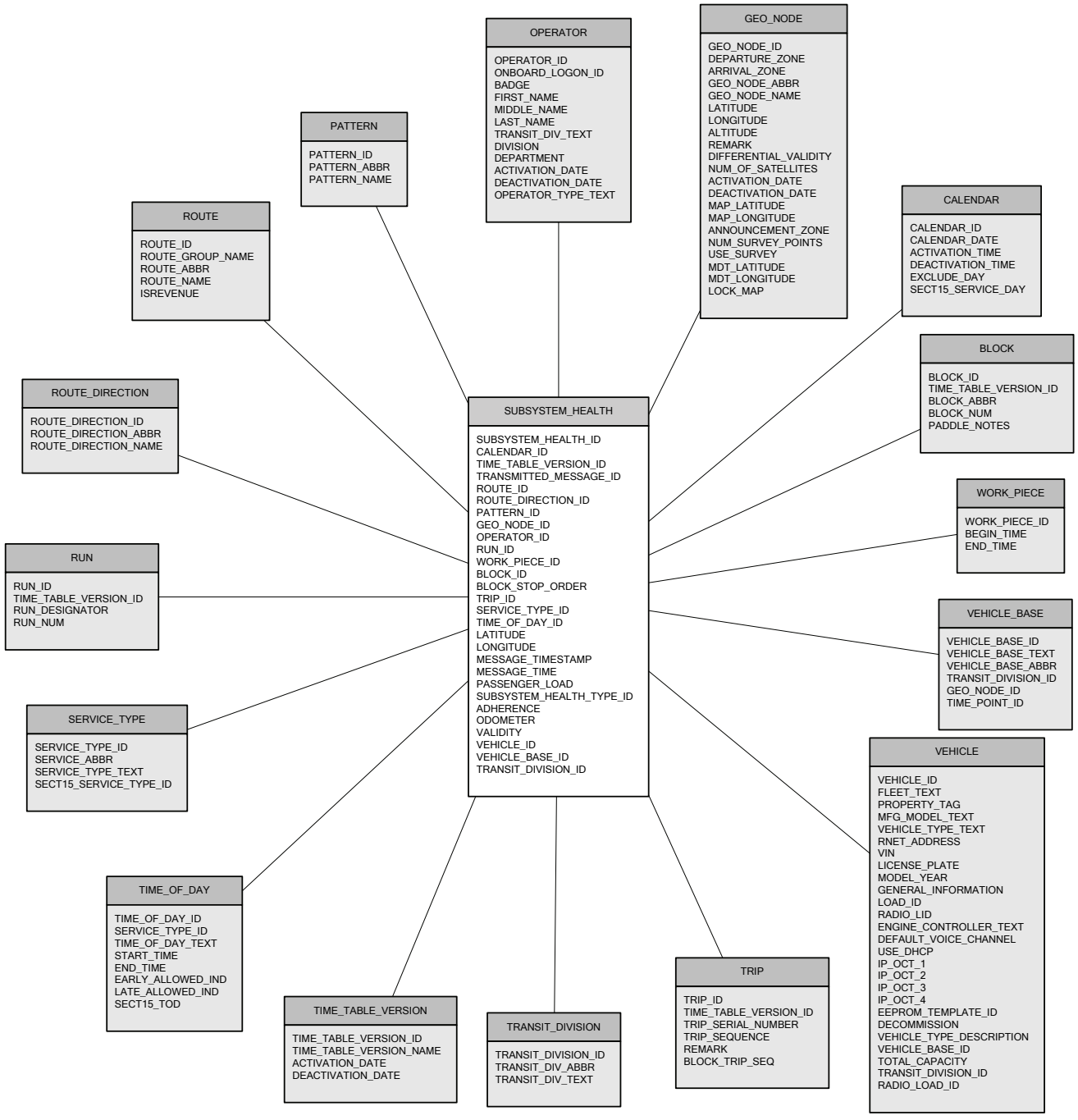


SUBSYSTEM_EVENT Attributes

Column Name	Data Type	Null	Definition
SUBSYSTEM_EVENT_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	Y	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
TRANSMITTED_MESSAGE_ID	Bigint	Y	Reference to TMDailyLog.LOGGED_MESSAGE.TRANSMITTED_MESSAGE_ID
MESSAGE_TYPE_ID	Numeric (3, 0)	N	FK to MESSAGE_TYPE.MESSAGE_TYPE_ID
ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
TRIP_ID	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
BLOCK_STOP_ORDER	Integer	Y	Chronological order of stop within the block.
LATITUDE	Numeric (12, 0)	Y	Vehicle's latitude at time of occurrence.
LONGITUDE	Numeric (12, 0)	Y	Vehicle's longitude at time of occurrence.
MESSAGE_TIMESTAMP	Datetime	Y	The UTC timestamp that TMLogger recorded the message (not necessarily the date and time that the record was added to the database).
MESSAGE_TIME	Integer	Y	Seconds past midnight the event occurred.
PASSENGER_LOAD	Integer	Y	Number of passengers on vehicle at the time of the event.
ODOMETER	Integer	Y	Total distance traveled by the vehicle. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
VALIDITY	Smallint	Y	Validity of GPS message.
SUBSYSTEM_EVENT_TYPE_ID	Integer	Y	FK to SUBSYSTEM_EVENT_TYPE.SUBSYSTEM_EVENT_TYPE_ID
SUBSYSTEM_EVENT_ACTION_ID	Integer	Y	FK to SUBSYSTEM_EVENT_ACTION.SUBSYSTEM_EVENT_ACTION_ID
DELTA_LATITUDE	Numeric (12, 0)	Y	Latitude relative to the reference point.
DELTA_LONGITUDE	Numeric (12, 0)	Y	Longitude relative to the reference point.
REFERENCE_POINT	Tinyint	Y	FK to REFERNCE_POINT.REFERENCE_POINT_ID
SCHEDULE_ADHERENCE	Smallint	Y	Minutes early (negative) or late as interpreted by SCHEDULE.ADHERENCE_RANGE. Small Range = -6.4 to 6.3; Long Range = -64 to -2 and 0 to 63. This field contains the whole portion of the adherence.
SCHEDULE_ADHERENCE_RANGE	Bit	Y	0 = Small Range; 1 = Long Range
SCHEDULE_ADHERENCE_TENTHS	Integer	Y	Contains the fractional portion of adherence.
BUS_LOAD	Smallint	Y	Count of passengers on the vehicle. Values 0 to 255.
RESERVED_1	Tinyint	Y	Additional message information specific to the SUBSYSTEM_EVENT_TYPE and SUBSYSTEM_EVENT_ACTION_ID defining the event.
RESERVED_2	Tinyint	Y	Additional message information specific to the SUBSYSTEM_EVENT_TYPE and SUBSYSTEM_EVENT_ACTION_ID defining the event.

SUBSYSTEM_HEALTH

Entity Name	SUBSYSTEM_HEALTH
Primary Keys	SUBSYSTEM_HEALTH_ID
Definition	Contains health status of various components on the mobile.



SUBSYSTEM_HEALTH Attributes

Column Name	Data Type	Null	Definition
SUBSYSTEM_HEALTH_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	Y	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
TRANSMITTED_MESSAGE_ID	Bigint	Y	Reference to TMDailyLog.LOGGED_MESSAGE.TRANSMITTED_MESSAGE_ID
ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
BLOCK_STOP_ORDER	Integer	Y	Chronological order of stop within the block.
TRIP_ID	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
LATITUDE	Numeric (12, 0)	Y	Vehicle's latitude at time of occurrence.
LONGITUDE	Numeric (12, 0)	Y	Vehicle's longitude at time of occurrence.
MESSAGE_TIMESTAMP	Datetime	Y	The UTC timestamp that TMLogger recorded the message (not necessarily the date and time that the record was added to the database).
MESSAGE_TIME	Integer	Y	Seconds past midnight the event occurred.
PASSENGER_LOAD	Integer	Y	Number of passengers on vehicle at the time of the event.
SUBSYSTEM_HEALTH_TYPE_ID	Integer	Y	FK to subsystem health type.
ADHERENCE	Integer	Y	Seconds early (negative) or late.
ODOMETER	Integer	Y	Total distance traveled by the vehicle. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
VALIDITY	Integer	Y	Validity of GPS message.
VEHICLE_ID	Numeric (5, 0)	Y	FK to SUBSYSTEM_EVENT_TYPE.SUBSYSTEM_EVENT_TYPE_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK to SUBSYSTEM_EVENT_ACTION.SUBSYSTEM_EVENT_ACTION_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	Latitude relative to the reference point.

TMCONFIGURATION_ACTIVITY

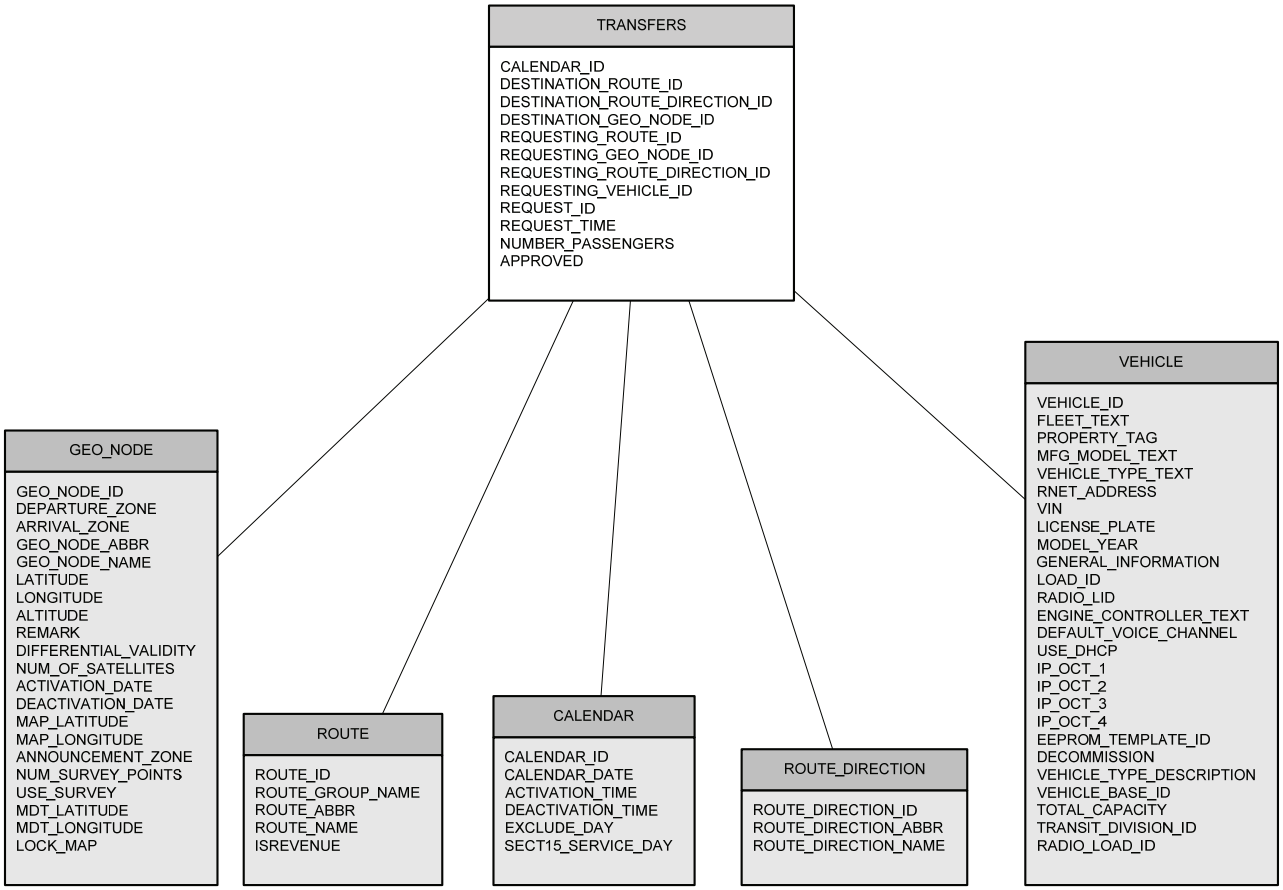
Entity Name	TMCONFIGURATION_ACTIVITY
Primary Keys	TMCONFIGURATION_ACTIVITY_ID
Definition	History of changes made to the database through TMConfiguration.

TMCONFIGURATION_ACTIVITY Attributes

Column Name	Data Type	Null	Definition
TMCONFIGURATION_ACTIVITY_ID	Integer	ID	Unique, system generated identifier.
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ACCOUNT	Varchar (128)	N	User account name.
WORKSTATION	Varchar (128)	N	Workstation initiating the activity.
TIME	Datetime	N	Time of the activity.
APPLICATION	Varchar (64)	N	Application initiating the activity.
REMARK	Varchar (1000)	Y	Free text remark.

TRANSFERS

Entity Name	TRANSFERS
Primary Keys	None
Definition	History of transfers.

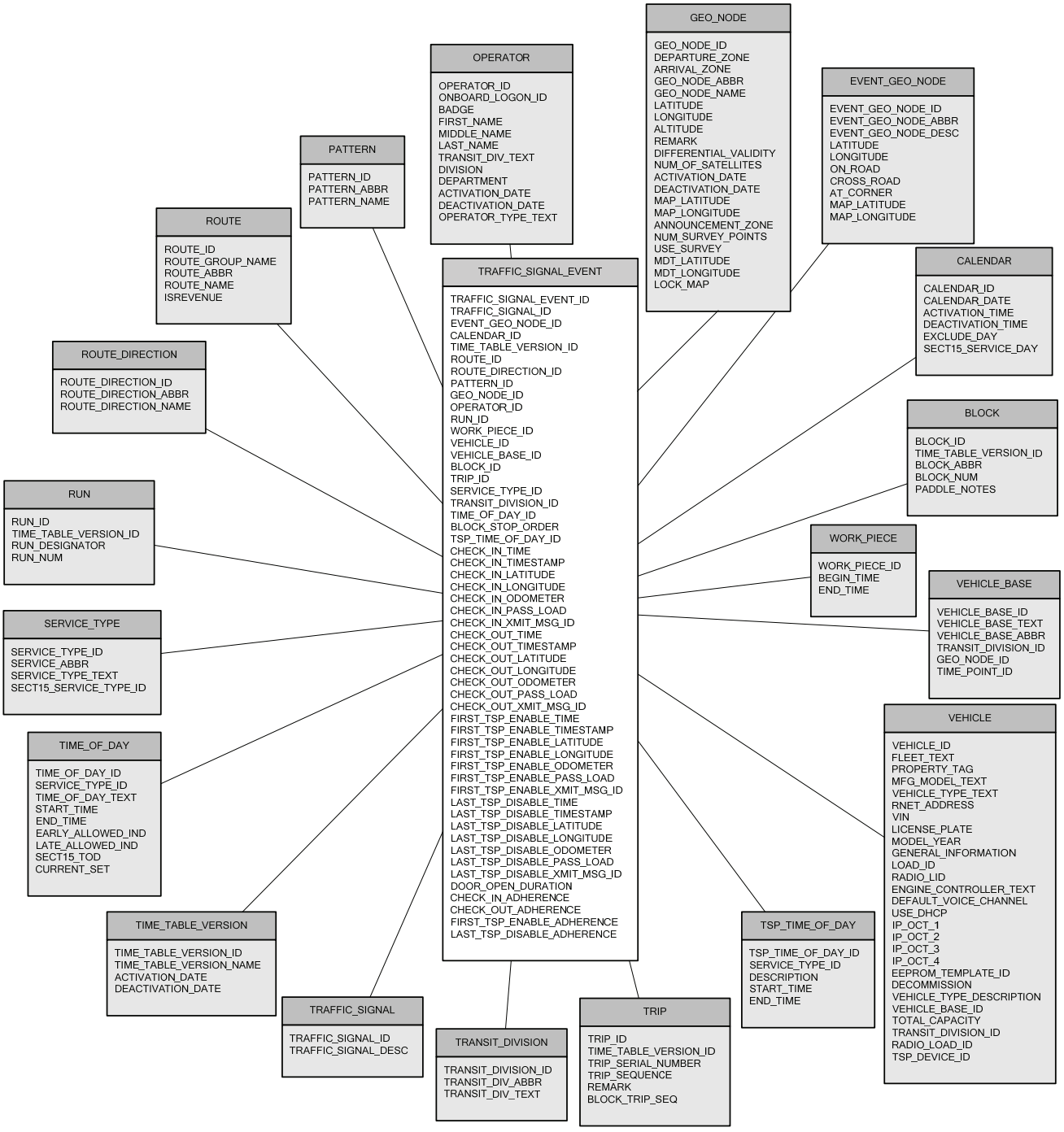


TRANSFERS Attributes

Column Name	Data Type	Null	Definition
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
DESTINATION_ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
DESTINATION_ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
DESTINATION_GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
REQUESTING_ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
REQUESTING_GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
REQUESTING_ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
REQUESTING_VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
REQUEST_ID	Integer	N	Unique identifier for service day and requesting vehicle.
REQUEST_TIME	Integer	N	Time of transfer request.
NUMBER_PASSENGERS	Integer	N	Number of passengers transferred.
APPROVED	Bit	N	1= Transfer was approved. 0 = Transfer was not approved.

TRAFFIC_SIGNAL_EVENT

Entity Name	TRAFFIC_SIGNAL_EVENT
Primary Keys	TRAFFIC_SIGNAL_EVENT_ID
Definition	History of traffic signal events generated from the mobile. Configurable route, time, and location settings trigger the events recorded in this table.



TRAFFIC_SIGNAL_EVENT Attributes

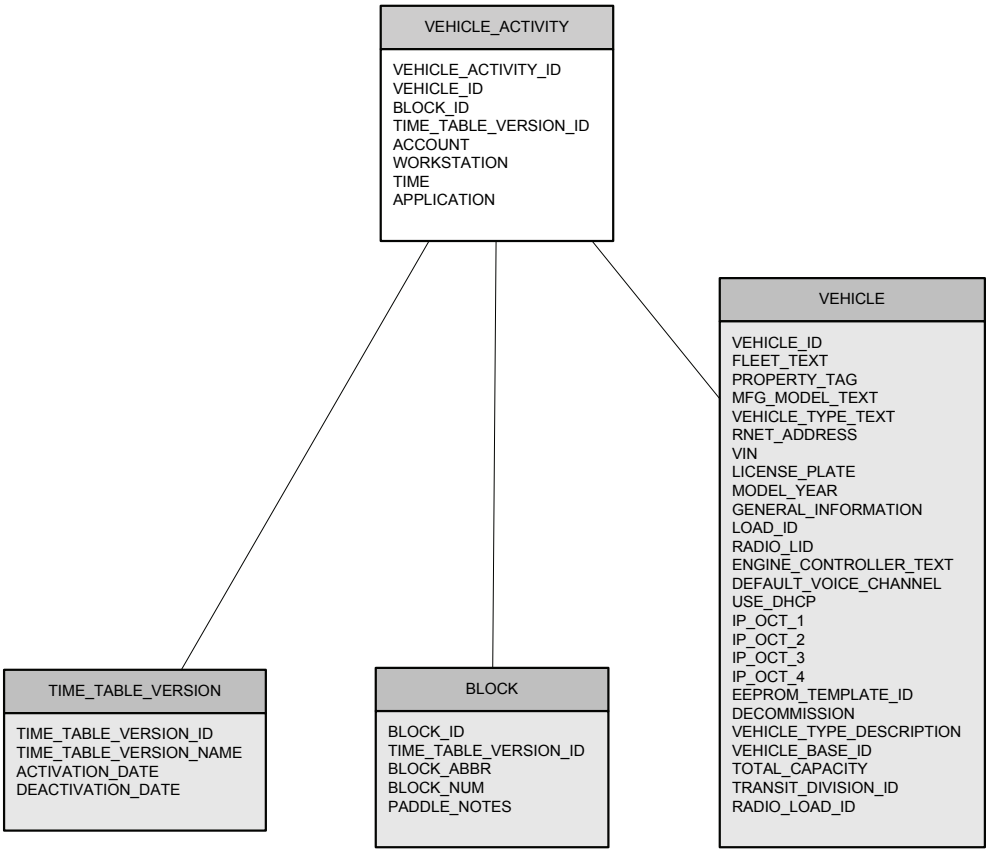
Column Name	Data Type	Null	Definition
TRAFFIC_SIGNAL_EVENT_ID	Integer	N	Unique, system generated identifier. This value is unique for each record in the table.
TRAFFIC_SIGNAL_ID	Numeric (5, 0)	N	FK to TRAFFIC_SIGNAL.TRAFFIC_SIGNAL_ID.
EVENT_GEO_NODE_ID	Numeric (5, 0)	N	FK to EVENT_GEO_NODE.EVENT_GEO_NODE_ID.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID.
TIME_TABLE_VERSION_ID	Numeric (5, 0)	Y	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID.
ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID.
ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID.
PATTERN_ID	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID.
GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID.
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID.
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID.
WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID.
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID.
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK to VEHICLE_BASE.VEHICLE_BASE_ID.
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID.
TRIP_ID	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID.
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID.
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID. Allows the traffic signal event to be associated to the transit division under which the traffic signal event occurred.
TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID. Allows the traffic signal event to be associated to the time of day interval during which the traffic signal event occurred.
BLOCK_STOP_ORDER	Integer	Y	Chronological order of this stop within the block.
TSP_TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TSP_TIME_OF_DAY.TSP_TIME_OF_DAY_ID.
CHECK_IN_TIME	Integer	Y	The time (in seconds past midnight) when the check-in TSP event action occurred.
CHECK_IN_TIMESTAMP	Datetime (8)	Y	The date and time when the check-in TSP event action occurred.
CHECK_IN_LATITUDE	Numeric (12, 0)	Y	The WGS-84 latitude coordinate where the check-in TSP event action occurred.
CHECK_IN_LONGITUDE	Numeric (12, 0)	Y	The WGS-84 longitude coordinate where the check-in TSP event action occurred.
CHECK_IN_ODOMETER	Integer	Y	Total distance traveled by the vehicle when the check-in TSP event action occurred. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
CHECK_IN_PASS_LOAD	Integer	Y	The passenger load determined by the vehicle when the check-in TSP event action occurred.
CHECK_IN_XMIT_MSG_ID	Integer	Y	The TRANSMITTED_MESSAGE_ID from the LOGGED_MESSAGE detail record that was used to provide the check-in information.
CHECK_OUT_TIME	Integer	Y	The time (in seconds past midnight) when the check-out TSP event action occurred.
CHECK_OUT_TIMESTAMP	Datetime	Y	The date and time when the check-out TSP event action occurred
CHECK_OUT_LATITUDE	Numeric (12, 0)	Y	The WGS-84 latitude coordinate where the check-out TSP event action occurred..
CHECK_OUT_LONGITUDE	Numeric (12, 0)	Y	The WGS-84 longitude coordinate where the check-out TSP event action occurred.
CHECK_OUT_ODOMETER	Integer	Y	Total distance traveled by the vehicle when the check-out TSP event action occurred. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
CHECK_OUT_PASS_LOAD	Integer	Y	The passenger load determined by the vehicle when the check-out TSP event action occurred.
CHECK_OUT_XMIT_MSG_ID	Integer	Y	The TRANSMITTED_MESSAGE_ID from the LOGGED_MESSAGE detail record that was used to provide the check-out information.

Fact Tables

Column Name	Data Type	Null	Definition
FIRST_TSP_ENABLE_TIME	Integer	Y	The time (in seconds past midnight) when the TSP emitter first enable event action occurred.
FIRST_TSP_ENABLE_TIMESTAMP	Datetime	Y	The date and time when the TSP emitter first enable event action occurred.
FIRST_TSP_ENABLE_LATITUDE	Numeric (12, 0)	Y	The WGS-84 latitude coordinate where the TSP emitter first enable event action occurred.
FIRST_TSP_ENABLE_LONGITUDE	Numeric (12, 0)	Y	The WGS-84 longitude coordinate where the TSP emitter first enable event action occurred.
FIRST_TSP_ENABLE_ODOMETER	Integer	Y	Total distance traveled by the vehicle when the TSP emitter first enable event action occurred. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
FIRST_TSP_ENABLE_PASS_LOAD	Integer	Y	The passenger load determined by the vehicle when the TSP emitter first enable event action occurred.
FIRST_TSP_ENABLE_XMIT_MSG_ID	Integer	Y	The TRANSMITTED_MESSAGE_ID from the LOGGED_MESSAGE detail record that is used to provide the TSP emitter first enable information.
LAST_TSP_DISABLE_TIME	Integer	Y	The time (in seconds past midnight) when the TSP emitter last disable event action occurred
LAST_TSP_DISABLE_TIMESTAMP	Datetime	Y	The date and time when the TSP emitter last disable event action occurred.
LAST_TSP_DISABLE_LATITUDE	Numeric (12, 0)	Y	The WGS-84 latitude coordinate where the TSP emitter last disable event action occurred.
LAST_TSP_DISABLE_LONGITUDE	Numeric (12, 0)	Y	The WGS-84 longitude coordinate where the TSP emitter last disable event action occurred.
LAST_TSP_DISABLE_ODOMETER	Integer	Y	Total distance traveled by the vehicle when the TSP emitter last disable event action occurred. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
LAST_TSP_DISABLE_PASS_LOAD	Integer	Y	The passenger load determined by the vehicle when the TSP emitter last disable event action occurred.
LAST_TSP_DISABLE_XMIT_MSG_ID	Integer	Y	The TRANSMITTED_MESSAGE_ID from the LOGGED_MESSAGE detail record that is used to provide the TSP emitter last disable information.
DOOR_OPEN_DURATION	Integer	Y	The duration in seconds the door is open between the check-in and check-out TSP event actions.
CHECK_IN_ADHERENCE	Numeric (3, 1)	Y	The adherence value in minutes determined by the vehicle when the check-in TSP event action occurred. A negative value denotes early or ahead of scheduled arrival/departure time. A positive value denotes late arrival or behind scheduled arrival/departure time (Whether arrival or departure is used is dependent on PROPERTY_CONFIGURATION settings).
CHECK_OUT_ADHERENCE	Numeric (3, 1)	Y	The adherence value in minutes determined by the vehicle when the check-out TSP event action occurred. A negative value denotes early or ahead of scheduled arrival/departure time. A positive value denotes late arrival or behind scheduled arrival/departure time (Whether arrival or departure is used is dependent on PROPERTY_CONFIGURATION settings).
FIRST_TSP_ENABLE_ADHERENCE	Numeric (3, 1)	Y	The adherence value in minutes determined by the vehicle when the TSP emitter first enable event action occurred. A negative value denotes early or ahead of scheduled arrival/departure time. A positive value denotes late arrival or behind scheduled arrival/departure time (Whether arrival or departure is used is dependent on PROPERTY_CONFIGURATION settings).
LAST_TSP_DISABLE_ADHERENCE	Numeric (3, 1)	Y	The adherence value in minutes determined by the vehicle when the TSP emitter last disable event action occurred. A negative value denotes early or ahead of scheduled arrival/departure time. A positive value denotes late arrival or behind scheduled arrival/departure time (Whether arrival or departure is used is dependent on PROPERTY_CONFIGURATION settings).

VEHICLE_ACTIVITY

Entity Name	VEHICLE_ACTIVITY
Primary Keys	VEHICLE_ACTIVITY_ID
Definition	History of when a dispatcher replaces a driver.

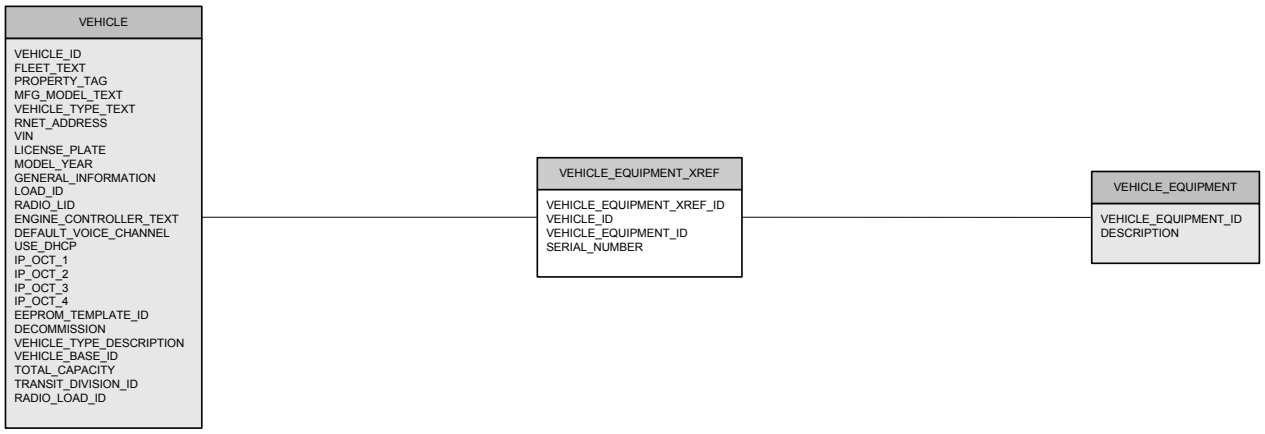


VEHCILE_ACTIVITY Attributes

Column Name	Data Type	Null	Definition
VEHICLE_ACTIVITY_ID	Integer	ID	Unique, system generated identifier.
VEHICLE_ID	Numeric (5, 0)	N	FK to VEHICLE.VEHICLE_ID
BLOCK_ID	Numeric (10, 0)	N	FK to BLOCK.BLOCK_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ACCOUNT	Varchar (128)	N	User account name.
WORKSTATION	Varchar (128)	N	Workstation initiating the activity.
TIME	Datetime	N	Time of the activity.
APPLICATION	Varchar (64)	N	Application initiating the activity.

VEHICLE_EQUIPMENT_XREF

Entity Name	VEHICLE_EQUIPMENT_XREF
Primary Keys	VEHICLE_ID, VEHICLE_EQUIP_ID
Definition	Each entry represents an equipment item that exists for a vehicle.

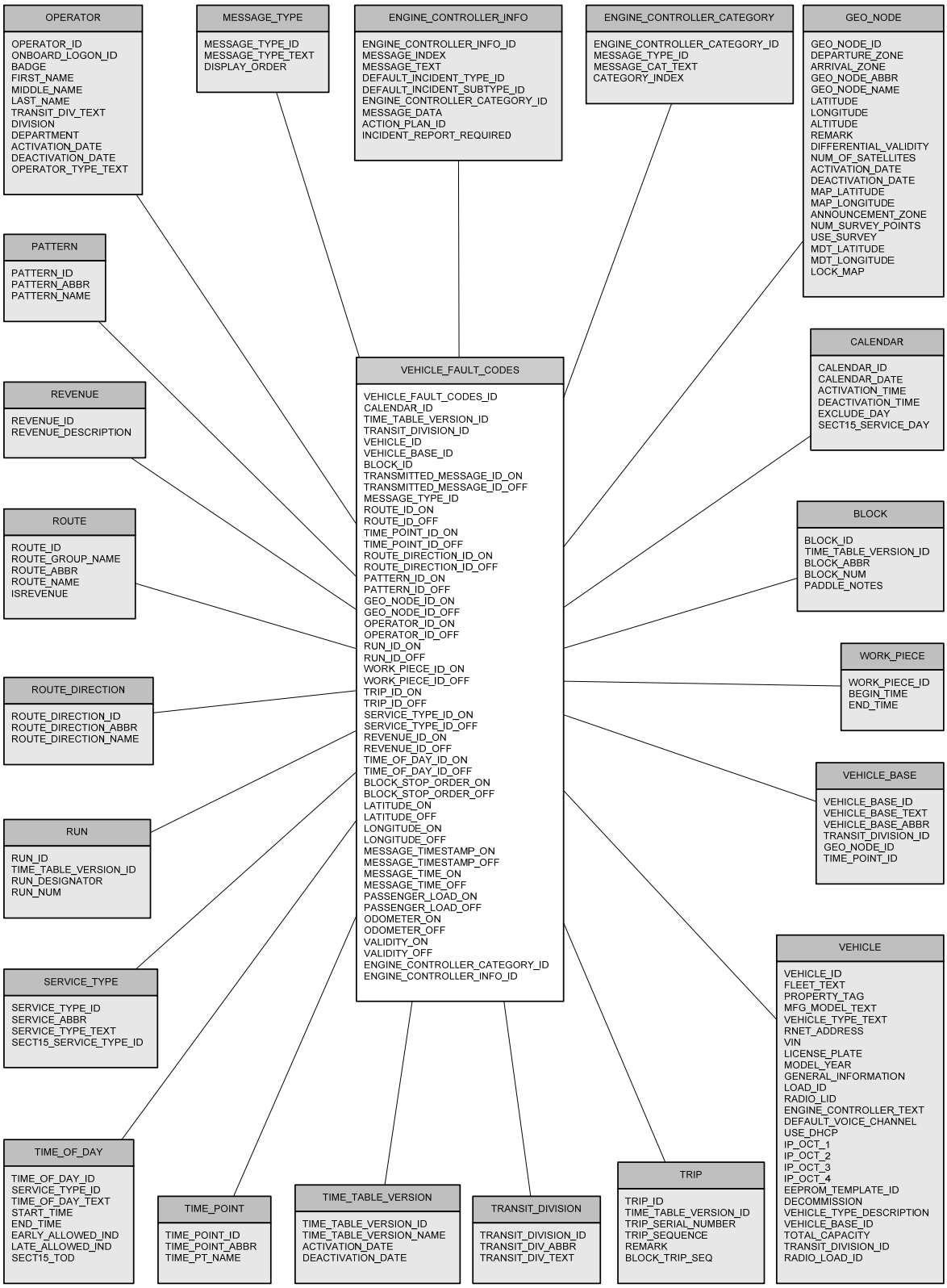


VEHICLE_EQUIPMENT_XREF Attributes

Column Name	Data Type	Null	Definition
VEHICLE_EQUIPMENT_XREF_ID	Integer	N	The unique, system-assigned identifier of a record.
VEHICLE_ID	Numeric (5, 0)	N	FK to VEHICLE.VEHICLE_ID
VEHICLE_EQUIPMENT_ID	Tinyint (1)	N	FK to VEHICLE_EQUIPMENT.VEHICLE_ID
SERIAL_NUMBER	Varchar (20)	Y	The serial number from the manufacturer.

VEHICLE_FAULT_CODES

Entity Name	VEHICLE_FAULT_CODES
Primary Keys	VEHICLE_FAULT_CODES_ID
Definition	History of vehicle faults reported by engine controllers.



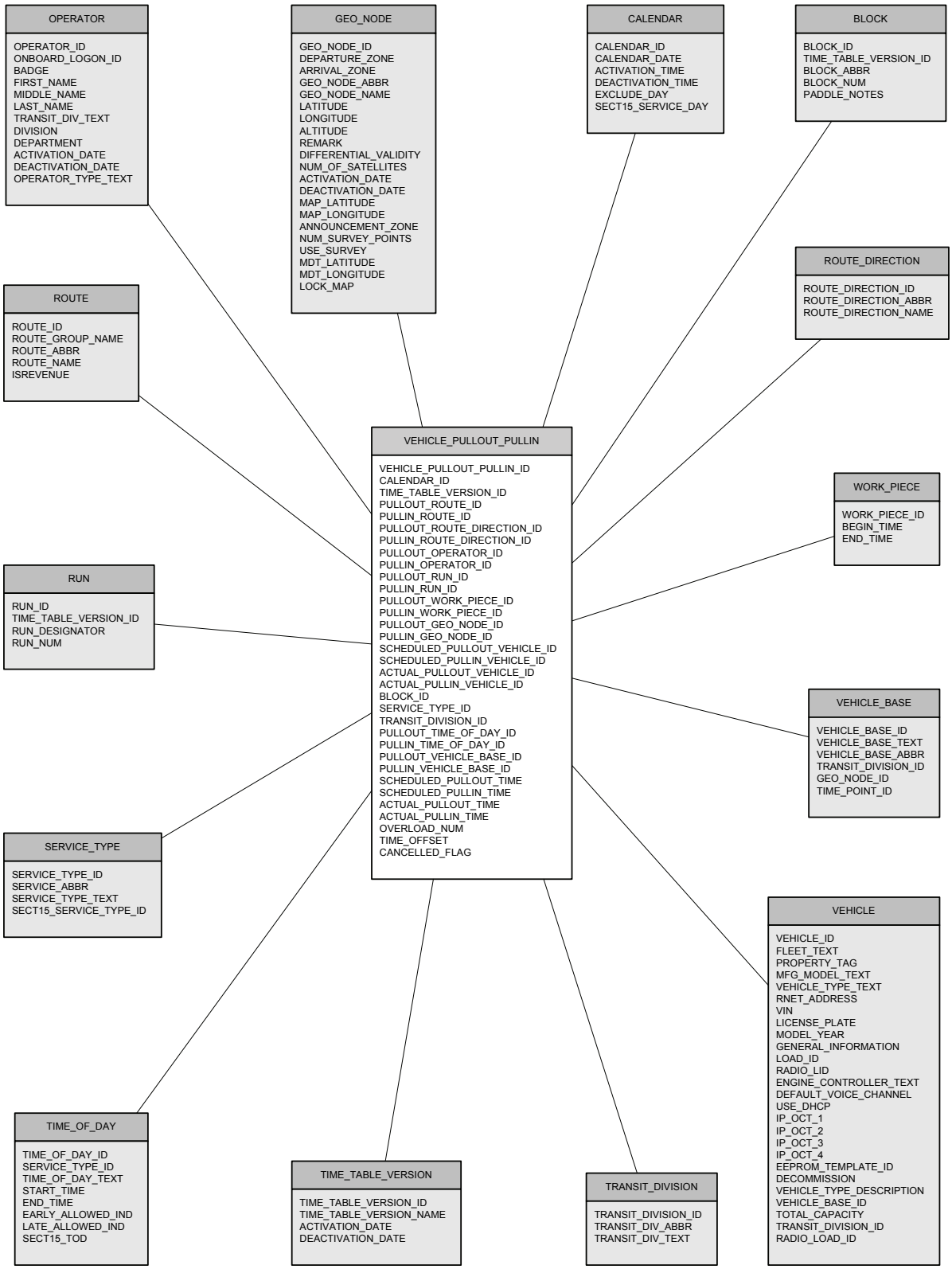
VEHICLE_FAULT_CODES Attributes

Column Name	Data Type	Null	Definition
VEHICLE_FAULT_CODES_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	Y	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
TRANSMITTED_MESSAGE_ID_ON	Bigint	Y	Reference to TMDailyLog.LOGGED_MESSAGE.TRANSMITTED_MESSAGE_ID for the on fault code
TRANSMITTED_MESSAGE_ID_OFF	Integer	Y	Reference to TMDailyLog.LOGGED_MESSAGE.TRANSMITTED_MESSAGE_ID for the off fault code
MESSAGE_TYPE_ID	Numeric (3, 0)	N	FK to MESSAGE_TYPE.MESSAGE_TYPE_ID
ROUTE_ID_ON	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_ID_OFF	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
TIME_POINT_ID_ON	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
TIME_POINT_ID_OFF	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
ROUTE_DIRECTION_ID_ON	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
ROUTE_DIRECTION_ID_OFF	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID_ON	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
PATTERN_ID_OFF	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID_ON	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
GEO_NODE_ID_OFF	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID_ON	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
OPERATOR_ID_OFF	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID_ON	Numeric (10, 0)	Y	FK to RUN.RUN_ID
RUN_ID_OFF	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID_ON	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
WORK_PIECE_ID_OFF	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
TRIP_ID_ON	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
TRIP_ID_OFF	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID_ON	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
SERVICE_TYPE_ID_OFF	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
REVENUE_ID_ON	Char (1)	Y	FK to REVENUE.REVENUE_ID
REVENUE_ID_OFF	Char (1)	Y	FK to REVENUE.REVENUE_ID
TIME_OF_DAY_ID_ON	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
TIME_OF_DAY_ID_OFF	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
BLOCK_STOP_ORDER_ON	Integer	Y	Chronological order of GEO_NODE_ID_ON within the block.
BLOCK_STOP_ORDER_OFF	Integer	Y	Chronological order of GEO_NODE_ID_OFF within the block.
LATITUDE_ON	Numeric (12, 0)	Y	Vehicle's latitude at time of fault code on.
LATITUDE_OFF	Numeric (12, 0)	Y	Vehicle's latitude at time of fault code off.
LONGITUDE_ON	Numeric (12, 0)	Y	Vehicle's longitude at time of fault code on.
LONGITUDE_OFF	Numeric (12, 0)	Y	Vehicle's longitude at time of fault code off.
MESSAGE_TIMESTAMP_ON	Datetime	Y	The UTC timestamp that TMLogger recorded the ON message (not necessarily the date and time that the record was added to the database).
MESSAGE_TIMESTAMP_OFF	Datetime	Y	The UTC timestamp that TMLogger recorded the OFF message (not necessarily the date and time that the record was added to the database).
MESSAGE_TIME_ON	Integer	Y	Seconds past midnight when the event ON occurred.
MESSAGE_TIME_OFF	Integer	Y	Seconds past midnight when the event OFF occurred.
PASSENGER_LOAD_ON	Integer	Y	Passengers on board when the event ON occurred.
PASSENGER_LOAD_OFF	Integer	Y	Passengers on board when the event OFF occurred.
ODOMETER_ON	Integer	Y	Total distance traveled by the vehicle at the time of event ON. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers..

Column Name	Data Type	Null	Definition
ODOMETER_OFF	Integer	Y	Total distance traveled by the vehicle at the time of event OFF. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
VALIDITY_ON	Smallint	Y	Validity of GPS message ON.
VALIDITY_OFF	Smallint	Y	Validity of GPS message OFF.
ENGINE_CONTROLLER_CATEGORY_ID	Numeric (4, 0)	Y	FK to ENGINE_CONTROLLER_CATEGORY.ENGINE_CONTROLLER_CATEGORY_ID
ENGINE_CONTROLLER_INFO_ID	Numeric (5, 0)	Y	FK to ENGINE_CONTROLLER_INFO.ENGINE_CONTROLLER_INFO_ID

VEHICLE_PULLOUT_PULLIN

Entity Name	VEHICLE_PULLOUT_PULLIN
Primary Keys	VEHICLE_PULLOUT_PULLIN_ID
Definition	History of a scheduled block pull outs and pull ins.

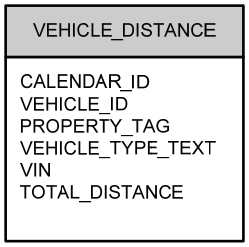


VEHICLE_PULLOUT_PULLIN Attributes

Column Name	Data Type	Null	Definition
VEHICLE_PULLOUT_PULLIN_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
PULLOUT_ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
PULLIN_ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
PULLOUT_ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PULLIN_ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PULLOUT_OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
PULLIN_OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
PULLOUT_RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
PULLIN_RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
PULLOUT_WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
PULLIN_WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
PULLOUT_GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
PULLIN_GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
SCHEDULED_PULLOUT_VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
SCHEDULED_PULLIN_VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
ACTUAL_PULLOUT_VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
ACTUAL_PULLIN_VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
PULLOUT_TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
PULLIN_TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
PULLOUT_VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
PULLIN_VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
SCHEDULED_PULLOUT_TIME	Numeric (10, 0)	Y	Scheduled seconds past midnight of the pull out.
SCHEDULED_PULLIN_TIME	Numeric (10, 0)	Y	Scheduled seconds past midnight of the pull in.
ACTUAL_PULLOUT_TIME	Numeric (10, 0)	Y	Actual seconds past midnight of the pull out.
ACTUAL_PULLIN_TIME	Numeric (10, 0)	Y	Actual seconds past midnight of the pull in.
OVERLOAD_NUM	Tinyint	Y	If on a overload block, the number of that overload.
TIME_OFFSET	Numeric (3, 0)	Y	Allow offset time.
CANCELLED_FLAG	Bit	Y	1 = Block was cancelled. 0 = Block was not cancelled.

VEHICLE_DISTANCE

Entity Name	VEHICLE_DISTANCE
Primary Keys	None
Definition	History of distance (miles or kilometers) traveled by all vehicles.

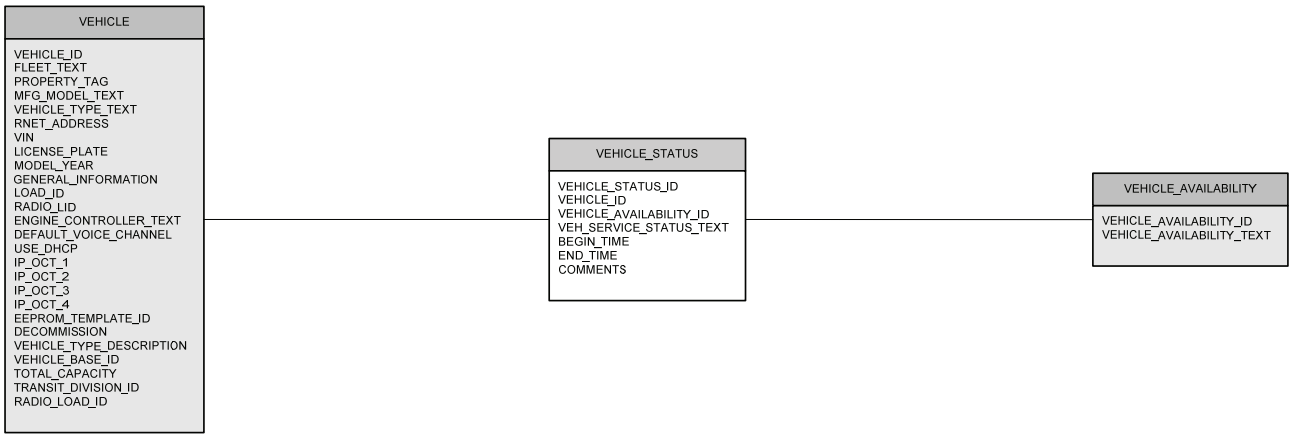


VEHICLE_DISTANCE Attributes

Column Name	Data Type	Null	Definition
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
VEHICLE_ID	Numeric (5, 0)	N	FK to VEHICLE.VEHICLE_ID
PROPERTY_TAG	Varchar (20)	N	FK to VEHICLE.PROPERTY_TAG
VEHICLE_TYPE_TEXT	Varchar (100)	N	FK to VEHICLE.VEHCILE_TYPE_TEXT
VIN	Varchar (20)	Y	FK to VEHICLE.VIN
TOTAL_DISTANCE	Numeric (10, 2)	N	Mileage or kilometers traveled by vehicle.

VEHICLE_STATUS

Entity Name	VEHICLE_STATUS
Primary Keys	VEHICLE_STATUS_ID
Definition	History of availability status changes for all vehicles.

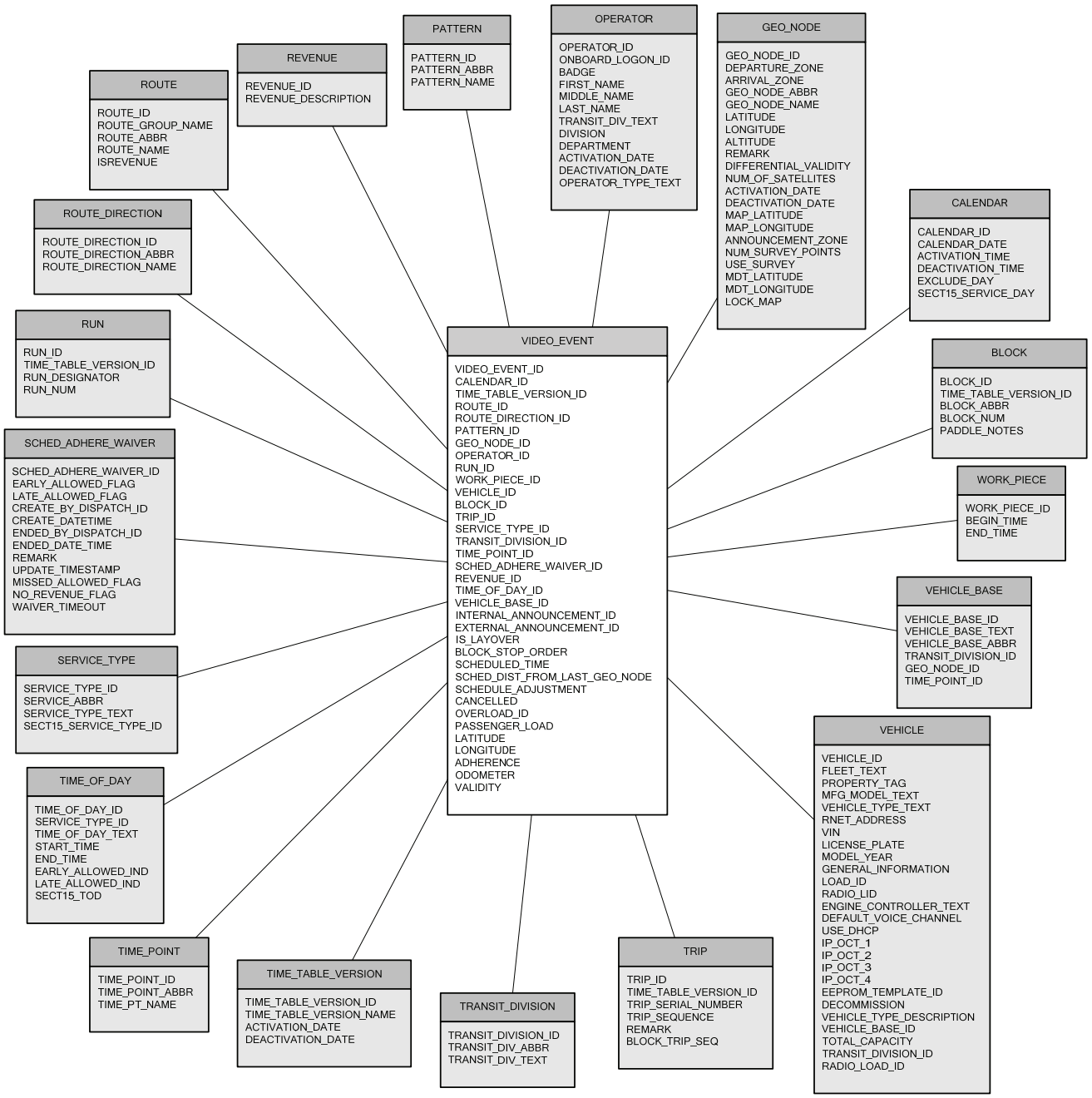


VEHICLE_STATUS Attributes

Column Name	Data Type	Null	Definition
VEHICLE_STATUS_ID	Integer	ID	Unique, system generated identifier.
VEHICLE_ID	Numeric (5, 0)	N	FK to VEHICLE.VEHICLE_ID
VEHICLE_AVAILABILITY_ID	Integer	Y	FK to VEHICLE_AVAILABILITY.VEHICLE_AVAILABILITY_ID
VEH_SERVICE_STATUS_TEXT	Varchar (100)	N	Text description of the status.
BEGIN_TIME	Datetime	N	Time status started.
END_TIME	Datetime	Y	Time status ended.
COMMENTS	Varchar (255)	Y	Comments related to the status change.

VIDEO_EVENT

Entity Name	VIDEO_EVENT
Primary Keys	VIDEO_EVENT_ID
Definition	History of video events.

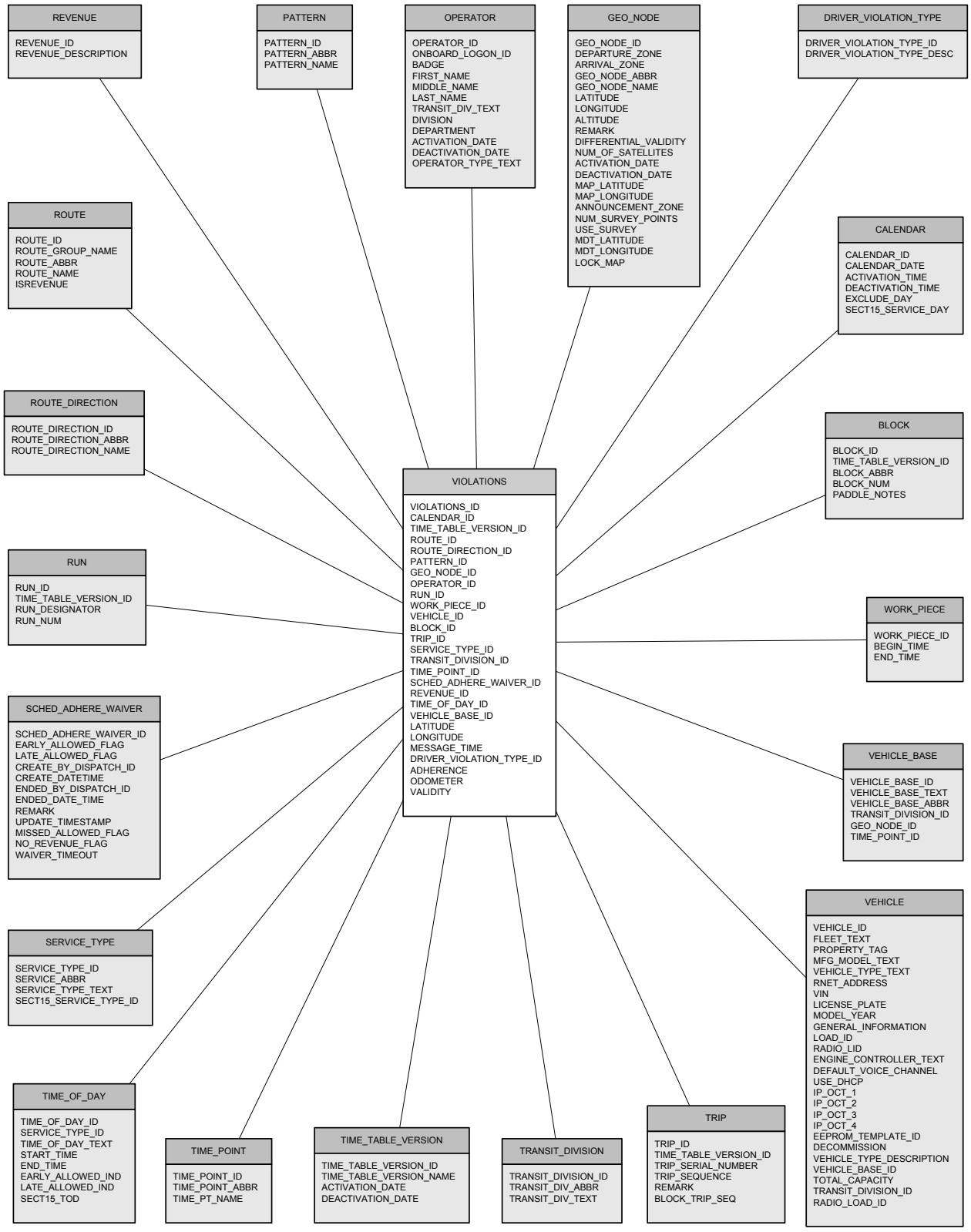


VIDEO_EVENT Attributes

Column Name	Data Type	Null	Definition
VIDEO_EVENT_ID	Integer	ID	FK to VIDOE_EVENT_ID
CALENDAR_ID	Numeric(10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
TRIP_ID	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
TIME_POINT_ID	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
SCHED_ADHERE_WAIVER_ID	Numeric (9, 0)	Y	FK to SCHED_ADHERE_WAIVER.SCHED_ADHERE_WAIVER_ID
REVENUE_ID	Char (1)	Y	FK to REVENUE.REVENUE_ID
TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
INTERNAL_ANNOUNCEMENT_ID	Numeric (5, 0)	Y	FK to ANNOUNCEMENT.ANNOUNCEMENT_ID.
EXTERNAL_ANNOUNCEMENT_ID	Numeric (5, 0	Y	FK to ANNOUNCEMENT.ANNOUNCEMENT_ID
IS_LAYOVER	Bit	Y	1 = The time point is a layover point. 0 = The time point is not a layover point.
BLOCK_STOP_ORDER	Integer	Y	Chronological order of this stop within the block.
SCHEDULED_TIME	Numeric (10, 0)	Y	Seconds past midnight the event was scheduled to occur.
SCHED_DIST_FROM_LAST_GEO_NODE	Integer	Y	Scheduled distance from previous geo node.
SCHEDULE_ADJUSTMENT	Integer	Y	Type of service adjustment (internal).
CANCELLED	Bit	Y	1 = Stop was cancelled.
OVERLOAD_ID	Integer	Y	Overload number if on an overloaded block.
PASSENGER_LOAD	Integer	Y	Passengers on board.
LAITITUDE	Numeric (12,0)	Y	Vehicle's latitude at time of occurrence.
LONGITUDE	Numeric (12,0)	Y	Vehicle's longitude at time of occurrence.
ADHERENCE	Integer	Y	Seconds early (negative) or late.
ODOMETER	Integer	Y	Total distance traveled by the vehicle. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
VALIDITY	Integer	Y	Validity of GPS message.

VIOLATIONS

Entity Name	VIOLATIONS
Primary Keys	VIOLATIONS_ID
Definition	History of recorded driver violations.

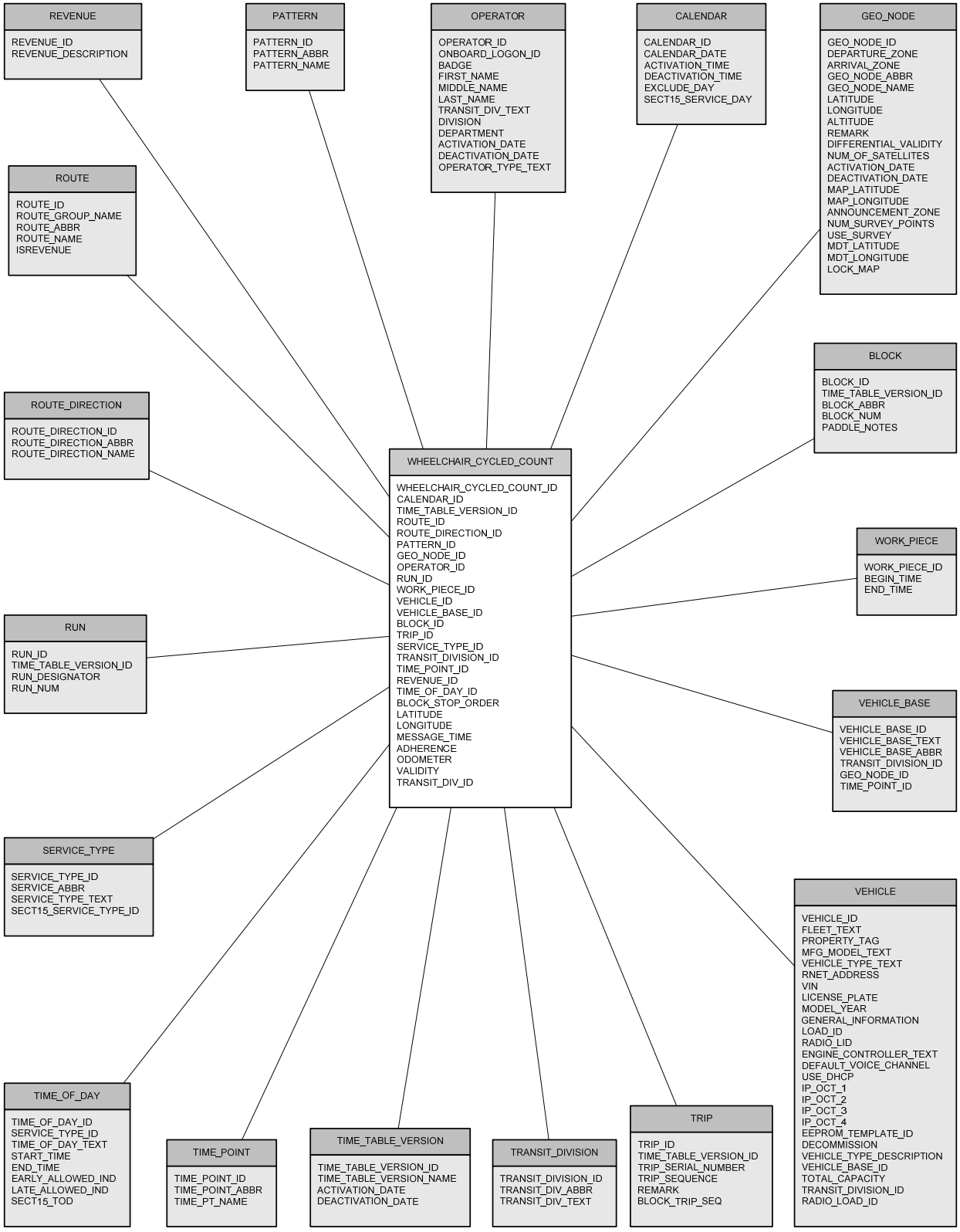


VIOLATIONS Attributes

Column Name	Data Type	Null	Definition
VIOLATIONS_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
TRIP_ID	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
TIME_POINT_ID	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
SCHED_ADHERE_WAIVER_ID	Numeric (9, 0)	Y	FK to SCHED_ADHERE_WAIVER.SCHED_ADHERE_WAIVER_ID
REVENUE_ID	Char (1)	Y	FK to REVENUE.REVENUE_ID
TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE.VEHICLE_BASE_ID
LATITUDE	Numeric (12, 0)	Y	Vehicle's latitude at time of occurrence.
LONGITUDE	Numeric (12, 0)	Y	Vehicle's longitude at time of occurrence.
MESSAGE_TIME	Integer	Y	Seconds past midnight when the event occurred.
DRIVER_VIOLATION_TYPE_ID	Integer	Y	FK to DRIVER_VIOLATION_TYPE.DRIVER_VIOLATION_TYPE_ID
ADHERENCE	Integer	Y	Seconds early (negative) or late.
ODOMETER	Integer	N	Total distance traveled by the vehicle. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
VALIDITY	Smallint	Y	Validity of GPS message.

WHEELCHAIR_CYCLED_COUNT

Entity Name	WHEELCHAIR_CYCLED_COUNT
Primary Keys	WHEELCHAIR_CYCLED_COUNT_ID
Definition	History of wheelchair lift being cycled on and off for all vehicles.

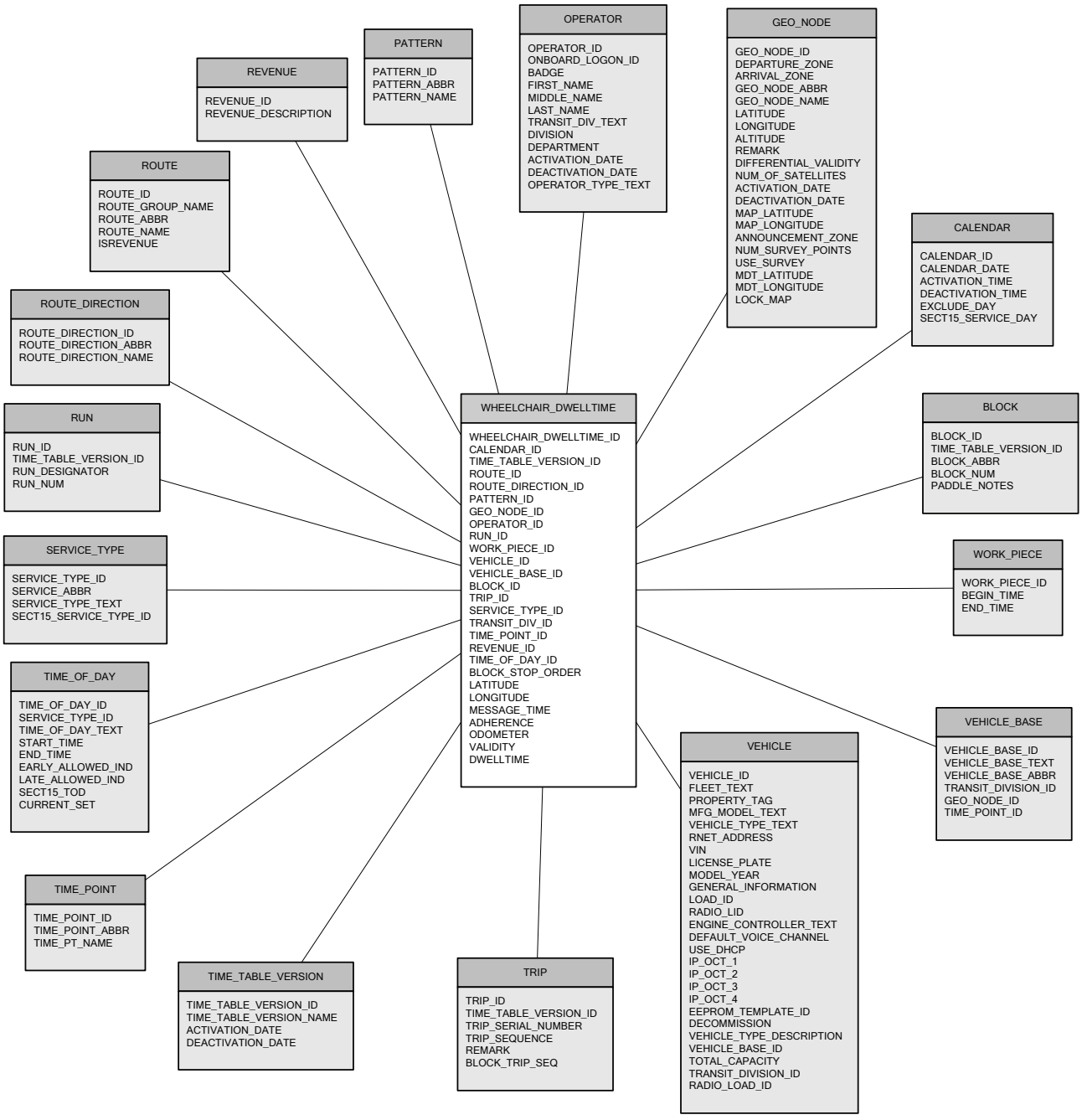


WHEELCHAIR_CYCLED_COUNT Attributes

Column Name	Data Type	Null	Definition
WHEELCHAIR_CYCLED_COUNT_ID	Integer	ID	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	Y	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
TRIP_ID	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
TIME_POINT_ID	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
REVENUE_ID	Char (1)	Y	FK to REVENUE.REVENUE_ID
TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
BLOCK_STOP_ORDER	Integer	Y	Chronological order of this stop within the block.
LATITUDE	Numeric (12, 0)	Y	Vehicle's latitude at time of occurrence.
LONGITUDE	Numeric (12, 0)	Y	Vehicle's longitude at time of occurrence.
MESSAGE_TIME	Integer	Y	Seconds past midnight when the event occurred.
ADHERENCE	Integer	Y	Seconds early (negative) or late.
ODOMETER	Integer	Y	Total distance traveled by the vehicle. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
VALIDITY	Smallint	Y	Validity of GPS message.

WHEELCHAIR_DWELLTIME

Entity Name	WHEELCHAIR_DWELLTIME
Primary Keys	WHEELCHAIR_DWELLTIME_ID
Definition	History of wheelchair lift dwell times on all vehicles.

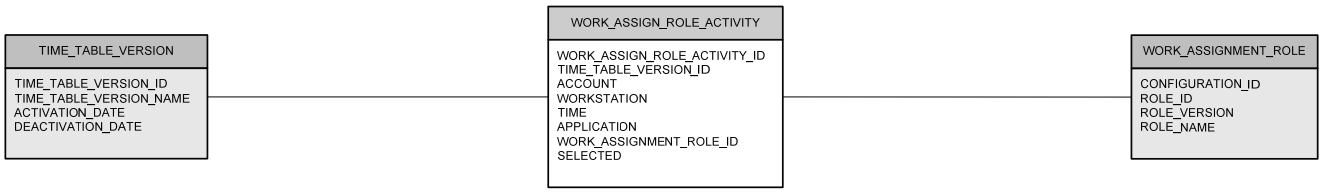


WHEELCHAIR_DWELLTIME Attributes

Column Name	Data Type	Null	Definition
WHEELCHAIR_DWELLTIME_ID	Integer	N	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	FK to CALENDAR.CALENDAR_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	Y	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ROUTE_ID	Numeric (5, 0)	Y	FK to ROUTE.ROUTE_ID
ROUTE_DIRECTION_ID	Numeric (5, 0)	Y	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
PATTERN_ID	Numeric (10, 0)	Y	FK to PATTERN.PATTERN_ID
GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
OPERATOR_ID	Numeric (5, 0)	Y	FK to OPERATOR.OPERATOR_ID
RUN_ID	Numeric (10, 0)	Y	FK to RUN.RUN_ID
WORK_PIECE_ID	Numeric (10, 0)	Y	FK to WORK_PIECE.WORK_PIECE_ID
VEHICLE_ID	Numeric (5, 0)	Y	FK to VEHICLE.VEHICLE_ID
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
BLOCK_ID	Numeric (10, 0)	Y	FK to BLOCK.BLOCK_ID
TRIP_ID	Numeric (10, 0)	Y	FK to TRIP.TRIP_ID
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
TIME_POINT_ID	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID
REVENUE_ID	Char (1)	Y	FK to REVENUE.REVENUE_ID
TIME_OF_DAY_ID	Numeric (5, 0)	Y	FK to TIME_OF_DAY.TIME_OF_DAY_ID
BLOCK_STOP_ORDER	Integer	Y	Chronological order of this stop within the block.
LATITUDE	Numeric (12, 0)	Y	Vehicle's latitude at time of occurrence.
LONGITUDE	Numeric (12, 0)	Y	Vehicle's longitude at time of occurrence.
MESSAGE_TIME	Integer	Y	Seconds past midnight when the event occurred.
ADHERENCE	Integer	Y	Seconds early (negative) or late.
ODOMETER	Integer	Y	Total distance traveled by the vehicle. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
VALIDITY	Smallint	Y	Validity of GPS message.
DWELLTIME	Integer	Y	Time it takes to load or unload a passenger from the wheelchair lift ramp.

WORK_ASSIGN_ROLE_ACTIVITY

Entity Name	WORK_ASSIGN_ROLE_ACTIVITY
Primary Keys	WORK_ASSIGN_ROLE_ACTIVITY_ID
Definition	History of when dispatchers logged on or off work assignment roles.



WORK_ASSIGN_ROLE_ACTIVITY Attributes

Column Name	Data Type	Null	Definition
WORK_ASSIGN_ROLE_ACTIVITY_ID	Integer	ID	Unique, system generated identifier.
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ACCOUNT	Varchar (128)	N	User account name.
WORKSTATION	Varchar (128)	N	Workstation initiating the activity.
TIME	Datetime	N	Time of the activity.
APPLICATION	Varchar (64)	N	Application initiating the activity.
WORK_ASSIGNMENT_ROLE_ID	Numeric (10, 0)	N	FK to WORK_ASSIGNMENT_ROLE.WORK_ASSIGNMENT_ROLE_ID
SELECTED	Bit	N	1 if added to work assignments; 0 if removed.

WORK_ASSIGN_VEH_ACTIVITY

Entity Name	WORK_ASSIGN_VEH_ACTIVITY
Primary Keys	WORK_ASSIGN_VEH_ACTIVITY_ID
Definition	History when dispatchers added or removed individual vehicles to their work assignment view.

WORK_ASSIGN_VEH_ACTIVITY Attributes

Column Name	Data Type	Null	Definition
WORK_ASSIGN_VEH_ACTIVITY_ID	Integer	ID	Unique, system generated identifier.
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
ACCOUNT	Varchar (128)	N	User account name.
WORKSTATION	Varchar (128)	N	Workstation initiating the activity.
TIME	Datetime	N	Time of the activity.
APPLICATION	Varchar (64)	N	Application initiating the activity.
RNET_ADDRESS	Numeric (5, 0)	N	RNET_ADDRESS of the vehicle added or removed from the view.
ADDED	Bit	N	1 = Vehicle was added. 0 = Vehicle was removed.

DIMENSION TABLES

Table Title	Description
ACTION_PLAN	Dispatcher action plan documents that are associated with radio messages.
ANNOUNCEMENT	The internal and external audio and visual announcements that can be utilized on a route.
ANNOUNCEMENT_GROUP	Super category for announcements.
APC_TYPE	Indicates different types of automatic passenger counter hardware.
BIKE_RACK_ACTIVITY_TYPE	List of bike rack activities.
BLOCK	Each entry defines the work of a vehicle from the time it leaves the vehicle base until its next return.
CALENDAR	A repository of every calendar day of service.
CALENDAR_DATE	Defines transit authority fiscal calendar.
DISPATCHER	Transit staff members that support the dispatch function. Users of the Operations application are added automatically.
DRIVER_VIOLATION_TYPE	List of all driver violations generated by the TransitMaster system.
EEPROM_TEMPLATE	Identifies EEPROM.bin template files.
ENGINE_CONTROLLER_CATEGORY	Identifies a device that controls the engine.
ENGINE_CONTROLLER_INFO	List of engine controller alarms.
EVENT_GEO_NODE	A dimension table used in coordination with TRAFFIC_SIGNAL_EVENT to describe the geonode or intersection at which some traffic signal priority events occurred.
FLEET	The master list of fleet designations that can be assigned to a vehicle.
FORM_SELECTION	Identifies the incident report form to be used based on the incident type, incident sub-type, and message type selected by the user.
GEO_NODE	Each entry defines a point that is measured for the creation of trips.
INCIDENT_REPORT_FORM	The types of incident forms that can be displayed to a user.
INCIDENT_SUBTYPE	Sub categories of incident types.
INCIDENT_TYPE	Inventory of incident types, on of which is attached to each incident report.
IRMA_SENSOR	List of IRMA Sensor status messages.
LOGON_TYPE	Types of vehicle logons. Current values are "log on" and "log off".
MANUAL_PASSENGER_COUNT_CAT	List of manual passenger count categories and the description for each category.
MECHANICAL_ALARM_TYPE	List of mechanical alarms.
MESSAGE_CATEGORY	Used in conjunction with the MESSAGE_INFO table to specify how a message type is used.
MESSAGE_INFO	Pre-defined messages loaded in the MDT.
MESSAGE_TYPE	A list of message types that can be recognized by the system.
MESSAGE_VERSION	Version control for messages. Each record represents a set of messages.
NT_GROUP	The Windows NT administrative groups defined by the property to control user access/filtering of fleet information.
OFF_ROUTE_TYPE	List of off route categories.
OPERATING_MODE	Operating mode of vehicle.
OPERATOR	Each entry represents a transit staff member who operates a vehicle.
PATTERN	A unique identifier assigned by a transit agency for a defined sequence of points, events and activation events along a variation of a route. Or, a series/sequence of timepoints (path) from a route start to a route end.
RADIO_LOAD	Associated with mobile radio configuration.
REFERENCE_POINT	A reference point is an absolute location in latitude and longitude. Messages can save space by identifying their location relative to a reference point. A maximum of eight reference points may be defined with only three active at a time.
REVENUE	List of revenue types.
ROUTE	Each entry defines a collection of patterns in revenue service.

Table Title	Description
ROUTE_DIRECTION	A set of publicized route directions that will indicate which way a vehicle will travel a route.
ROUTE_TYPE	
ROUTE_GEO_NODE_XREF	Stores the logical time points used for a given route and direction.
RUN	Each entry defines the daily pieces of work assigned to a transit employee.
SERVICE_CALENDAR	A repository of every calendar day of service.
SERVICE_TYPE	A collection of categories that define the levels of service defined for a public transportation operation.
STOP_FEATURE	A collection of categories that define the features associated with public transportation stops / geographic locations.
SUBSYSTEM_EVENT_ACTION	A dimension table used in coordination with the SUBSYSTEM_EVENT fact table to describe the event's action.
SUBSYSTEM_EVENT_TYPE	A dimension table used in coordination with the SUBSYSTEM_EVENT fact table to describe the subsystem event type.
SUBSYSTEM_HEALTH_TYPE	Not used. Reserved for a future release.
TALK_GROUP	A mobile radio configuration item.
TIME_OF_DAY	Categories of the time of day as is relates to passenger count, National Transit Database (NTD) reporting and mobile events.
TIME_POINT	The logical entity that is defined for one or more stops on a route.
TIME_TABLE_VERSION	Each entry defines a version of a timetable generated by the scheduling/runcutting module.
TRAFFIC_SIGNAL	A dimension table used with the TRAFFIC_SIGNAL_EVENT table to describe the traffic signals associated to traffic signal events that occurred.
TRAFFIC_SIGNAL_EVENT_GN_XREF	A configuration fact table used to show the relationship between TRAFFIC_SIGNAL and EVENT_GEO_NODE tables without requiring a TRAFFIC_SIGNAL_EVENT fact record to exist to define the relationship. Provides a report to show the group of traffic signals and geonodes without the existence of any traffic signal event occurrences.
TRANSIT_DIVISION	A transit service type category characterized by specific right-of-way, technological, and operational features.
TRIP	A one way movement of a transit vehicle in revenue service between two points. It can also be defined as a scheduled (timed) pattern. Or, the scheduled traversal of a bus over a pattern.
TSP_DEVICE	A dimension table used in coordination with the TRAFFIC_SIGNAL_EVENT fact table to describe the TSP device type that is installed on the vehicle that sent the TSP events.
TSP_TIME_OF_DAY	A dimension table used in coordination with the TRAFFIC_SIGNAL_EVENT fact table to describe the TSP interval of time during which the event occurred.
UNITS	Units of measurement (English or Metric) for a given CALENDAR_ID.
VEHICLE	The inventory of vehicles owned by the transit company. This includes a revenue vehicle or other related vehicle such as security or administration.
VEHICLE_AVAILABILITY	List of values that identifies when or if a vehicle is available for service, for example, full service, limited service, or unavailable.
VEHICLE_BASE	Each entry represents a storage facility for transit vehicles.
VEHICLE_EQUIPMENT	Features or functional items that can be associated with a vehicle.
WORK_ASSIGNMENT_ROLE	The roles that can be assigned to a dispatcher.
WORK_PIECE	Each entry defines a piece of work scheduled for an operator.

ACTION_PLAN

Entity Name	ACTION_PLAN
Primary Keys	ACTION_PLAN_ID
Definition	Dispatcher action plan documents that are associated with radio messages.

Attributes

Column Name	Data Type	Null	Definition
ACTION_PLAN_ID	Numeric (10, 0)	ID	Unique, system generated identifier.
ACTION_PLAN_KEYWORDS	Varchar (1000)	Y	Keywords used to search for a document.
ACTION_PLAN_DOC_TEXT	Varchar (max)	Y	Document text.

ANNOUNCEMENT

Entity Name	ANNOUNCEMENT
Primary Keys	ANNOUNCEMENT_ID
Definition	The internal and external audio and visual announcements that can be utilized on a route. Announcements can be defined at several levels. The hierarchy for which internal announcement is actually invoked is: Pattern_Geo_Node_Xref (Override) Geo_Node (Base) The hierarchy for which external announcement is actually invoked is: Pattern_Geo_Interval_Xref (Override) Pattern (Base)

Attributes

Column Name	Data Type	Null	Definition
ANNOUNCEMENT_ID	Numeric (5, 0)	ID	Unique, system generated identifier.
ANNOUNCEMENT_GROUP_ID	Integer	Y	FK to ANNOUNCEMENT_GROUP.ANNOUNCEMENT_GROUP_ID
ANNOUNCE_DESC	Varchar (255)	N	The text description of the announcement that is displayed to the user.
RESERVED	Smallint	Y	Reserved.

ANNOUNCEMENT_GROUP

Entity Name	ANNOUNCEMENT_GROUP
Primary Keys	ANNOUNCEMENT_GROUP_ID
Definition	Super category for announcements.

Attributes

Column Name	Data Type	Null	Definition
ANNOUNCEMENT_GROUP_ID	Integer	N	The unique, system-assigned identifier for each record.
GROUP_DESC	Varchar (255)	Y	The text description for a record that is displayed to the user.
RESERVED	Smallint	Y	Reserved.

APC_TYPE

Entity Name	APC_TYPE
Primary Keys	APC_TYPE_ID
Definition	Indicates different types of automatic passenger counter hardware.

Attributes

Column Name	Data Type	Null	Definition
APC_TYPE_ID	Integer	N	Unique identifier for each type of passenger counter hardware.
APC_TYPE_NAME	Varchar (30)	Y	Brand name of passenger counter hardware.

BIKE_RACK_ACTIVITY_TYPE

Entity Name	BIKE_RACK_ACTIVITY_TYPE
Primary Keys	BIKE_RACK_ACTIVITY_ID
Definition	List of bike rack activities.

Attributes

Column Name	Data Type	Null	Definition
BIKE_RACK_ACTIVITY_TYPE_ID	Integer	N	The unique ID that identifies each record.
BIKE_RACK_ACTIVITY_TYPE_DESC	Varchar (50)	N	The text description of the type of bike rack activity.

BLOCK

Entity Name	BLOCK
Entity Type	Independent
Primary Keys	BLOCK_ID
Definition	Each entry defines the work of a vehicle from the time it leaves the vehicle base until its next return. This is what a bus does all day; the total path it traverses from garage pull out to pull in. It may include "deadhead" sections to get to/from garage and start of a route trip or between trips on different routes. But basically it is a collection of trips. The term comes from "blocking." A term defined as the process of grouping/assigning route trips from the public schedule into chunks that can be performed sequentially by a vehicle.

Attributes

Column Name	Data Type	Null	Definition
BLOCK_ID	Numeric (10, 0)	N	FK to BLOCK or BLOCK_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIMETABLE_VERSION_ID
BLOCK_ABBR	Varchar (9)	N	An alpha-numeric identifier used to associate a sequence of trips to a transit vehicle.
BLOCK_NUM	Numeric (9, 0)	Y	A numeric identifier used to associate a sequence of trips to a transit vehicle.
PADDLE_NOTES	Varchar (2000)	Y	Text instructions for block.

CALENDAR

Entity Name	CALENDAR
Primary Keys	CALENDAR_ID
Definition	A repository of every calendar day of service.

Attributes

Column Name	Data Type	Null	Definition
CALENDAR_ID	Numeric (10, 0)	N	Special formatted date.
CALENDAR_DATE	Datetime	N	Day in normal format.
ACTIVATION_TIME	Datetime	Y	Beginning date and time for the service day.
DEACTIVATION_TIME	Datetime	Y	Ending date and time for the service day.
EXCLUDE_DAY	Bit	Y	1 = Exclude service day from National Transit Database (NTD) report.
SECT15_SERVICE_DAY	Char (8)	Y	Description of NTD report service day.

CALENDAR_DATE

Entity Name	CALENDAR_DATE
Primary Keys	CALENDAR_DATE
Definition	Defines transit authority fiscal calendar.

Attributes

Column Name	Data Type	Null	Definition
CALENDAR_DATE	Datetime	N	Actual calendar date.
WEEK_BEGIN	Datetime	N	Beginning date of calendar week.
WEEK_END	Datetime	N	Ending date of calendar week.
CALENDAR_MONTH	Integer	N	Fiscal calendar month of calendar date.
WEEK_OF_MONTH	Integer	N	Fiscal week number of month (1, 2, 3, 4, 5).
CALENDAR_YEAR	Integer	N	Fiscal calendar year of calendar date.

DISPATCHER

Entity Name	DISPATCHER
Primary Keys	DISPATCHER_ID
Definition	Transit staff members that support the dispatch function. Users of the Operations application are added automatically.

Attributes

Column Name	Data Type	Null	Definition
DISPATCHER_ID	Numeric (5, 0)	N	The unique identifier for each dispatch person. System Generated.
NT_GROUP_NAME	Varchar (32)	Y	Unique NT logon name of user.
FIRST_NAME	Varchar (20)	Y	The first name of the dispatch staff member.
MIDDLE_NAME	Varchar (20)	Y	The middle name of the dispatch staff member.
LAST_NAME	Varchar (60)	Y	The surname of the dispatch staff member.
BASE_LOGON_ID	Varchar (255)	Y	Application or system logon ID.

DRIVER_VIOLATION_TYPE

Entity Name	DRIVER_VIOLATION_TYPE
Primary Keys	DRIVER_VIOLATION_TYPE_ID
Definition	List of all driver violations generated by the TransitMaster system.

Attributes

Column Name	Data Type	Null	Definition
DRIVER_VIOLATION_TYPE_ID	Integer	N	Unique, system-assigned identifier for each record.
DRIVER_VIOLATION_TYPE_DESC	Varchar (50)	N	Description of driver violation.

EEPROM_TEMPLATE

Entity Name	EEPROM_TEMPLATE
Primary Keys	EEPROM_TEMPLATE_ID
Definition	Identifies EEPROM.bin template files.

Attributes

Column Name	Data Type	Null	Definition
EEPROM_TEMPLATE_ID	Numeric (5, 0)	N	A unique, system-assigned identifier for each record.
TEMPLATE_NAME	Varchar (20)	Y	A descriptive name associated with the EEPROM_TEMPLATE_ID
TEMPLATE_FILENAME	Varchar (20)	Y	The file name of the EEPROM.bin template file.

ENGINE_CONTROLLER_CATEGORY

Entity Name	ENGINE_CONTROLLER_CATEGORY
Entity Type	Independent
Primary Keys	ENGINE_CONTROLLER_CATEGORY_ID
Definition	Identifies a device that controls the engine.

Attributes

Column Name	Data Type	Null	Definition
ENGINE_CONTROLLER_CATEGORY_ID	Numeric (4, 0)	N	A unique, system-assigned identifier for each record.
MESSAGE_TYPE_ID	Numeric (3, 0)	Y	FK to MESSAGE_TYPE.MESSAGE_TYPE_ID
MESSAGE_CAT_TEXT	Varchar (22)	Y	Text associated with this message category. Max is 22 chars on the mobile side.
CATEGORY_INDEX	Numeric (7, 0)	Y	The index within the MDT for this category.

ENGINE_CONTROLLER_INFO

Entity Name	ENGINE_CONTROLLER_INFO
Primary Keys	ENGINE_CONTROLLER_INFO_ID
Definition	List of engine controller alarms.

Attributes

Column Name	Data Type	Null	Definition
ENGINE_CONTROLLER_INFO_ID	Numeric (5, 0)	N	Unique, system-assigned identifier for each record.
MESSAGE_INDEX	Numeric (10, 0)	Y	System generated identifier.
MESSAGE_TEXT	Varchar (255)	Y	Text description of a message.
DEFAULT_INCIDENT_TYPE_ID	Numeric (5, 0)	Y	FK to INCIDENT_TYPE.INCIDENT_TYPE_ID
DEFAULT_INCIDENT_SUBTYPE_ID	Numeric (5, 0)	Y	FK to INCIDENT_SUBTYPE.INCIDENT_SUBTYPE_ID
ENGINE_CONTROLLER_CATEGORY_ID	Numeric (4, 0)	N	FK to ENGINE_CONTROLLER_CATEGORY.ENGINE_CONTROLLER_CATEGORY_ID
MESSAGE_DATA	Numeric (18, 0)	Y	System generated identifier.
ACTION_PLAN_ID	Numeric (10, 0)	Y	FK to ACTION_PLAN.ACTION_PLAN_ID
INCIDENT_REPORT_REQUIRED	Bit	N	1 = Incident report will be automatically generated for this alarm.

EVENT_GEO_NODE

Entity Name	EVENT_GEO_NODE
Primary Keys	EVENT_GEO_NODE_ID
Definition	A dimension table used in coordination with TRAFFIC_SIGNAL_EVENT to describe the geonode or intersection at which some traffic signal priority events occurred.

Attributes

Column Name	Data Type	Null	Definition
EVENT_GEO_NODE ID	Numeric (5, 0)	N	Unique, system-assigned identifier for each record.
EVENT_GEO_NODE_ABBR	Varchar (12)	N	Short name for the geonode (intersection).
EVENT_GEO_NODE_DESC	Varchar (50)	Y	Long name or description for the geonode (intersection).
LATITUDE	Numeric (12, 0)	Y	The surveyed latitude portion of the latitude and longitude coordinates for a point in the WGS-84 coordinate system. The point typically defines the center of the intersection.
LONGITUDE	Numeric (12, 0)	Y	The surveyed longitude portion of the latitude and longitude coordinates for a point in the WGS-84 coordinate system. The point typically defines the center of the intersection.
ON_ROAD	Varchar (20)	Y	The name of the street the vehicle travels to cross the intersection.
CROSS_ROAD	Varchar (20)	Y	The name of the cross street the vehicle crosses to cross the intersection.
AT_CORNER	Varchar (2)	Y	The two-letter code for the nearest of the four corners. I.e., NE, NW, SE, or SW.
MAP_LATITUDE	Numeric (12, 0)	Y	The map latitude portion of the latitude and longitude coordinates for a point in the WGS-84 coordinate system. The point typically defines the center of the intersection.
MAP_LONGITUDE	Numeric (12, 0)	Y	The map longitude portion of the latitude and longitude coordinates for a point in the WGS-84 coordinate system. The point typically defines the center of the intersection.

FLEET

Entity Name	FLEET
Entity Type	Independent
Primary Keys	FLEET_ID
Definition	The master list of fleet designations that can be assigned to a vehicle.

Attributes

Column Name	Data Type	Null	Definition
FLEET_ID	Numeric (5, 0)	N	A unique, system-assigned identifier for each record.
FLEET_TEXT	Varchar (100)	N	The text that is displayed to the user for the name of the fleet. Ex. Fixed Route, ParaTransit, Supervisory, Maintenance.
NT_GROUP_ID	Integer	Y	The unique, system-assigned identifier for each record.
OPERATING_MODE_ID	Numeric (3, 0)	N	Defines the mode to use when logged in to each fleet.
LOW_LOGON_ROUTE	Numeric (9, 0)	Y	Logon range attribute entered on the MDT when logging in to this fleet.
LOW_LOGON_BLOCK	Numeric (9, 0)	Y	Logon range attribute entered on the MDT when logging in to this fleet.
HIGH_LOGON_ROUTE	Numeric (9, 0)	Y	Logon range attribute entered on the MDT when logging in to this fleet.
HIGH_LOGON_BLOCK	Numeric (9, 0)	Y	Logon range attribute entered on the MDT when logging in to this fleet.
BASE_FLEET_FLAG	Bit	N	Specifies if this fleet can be assigned to a vehicle as a base fleet. 0 - False 1 - True
LOGON_FLEET_FLAG	Bit	N	Specifies if this fleet can be used by a vehicle for logon. 0 - False 1 - True
CHANNEL	Numeric (3, 0)	Y	Internal system value.
VOICE_ONLY	Bit	N	1 = Fleet uses only voice communication.
SECT15_FLEET_ID	Char (2)	Y	Fleet type used in National Transit Database (NTD) report.

FORM_SELECTION

Entity Name	FORM_SELECTION
Primary Keys	FORM_SELECTION_ID
Definition	Identifies the incident report form to be used based on the incident type, incident sub-type, and message type selected by the user.

Attributes

Column Name	Data Type	Null	Definition
FORM_SELECTION_ID	Numeric (5, 0)	N	A unique, system-assigned identifier.
INCIDENT_TYPE_ID	Numeric (5, 0)	N	FK to INCIDENT_TYPE.INCIDENT_TYPE_ID
INCIDENT_SUBTYPE_ID	Numeric (5, 0)	N	FK to INCIDENT_SUB_TYPE.INCIDENT_SUB_TYPE_ID
FORM_ID	Numeric (5, 0)	Y	FK to INCIDENT_REPORT_FORM.INCIDENT_REPORT_FORM_ID
PRIORITY	Numeric (3, 0)	Y	Relative report form priority of this report.
SEVERITY	Numeric (3, 0)	Y	Relative severity level of this report.
DEACTIVATION_DATE	Datetime (8)	Y	The date that the item is removed from display.

GEO_NODE

Entity Name	GEO_NODE
Primary Keys	GEO_NODE_ID
Definition	Each entry defines a point that is measured for the creation of trips.

Attributes

Column Name	Data Type	Null	Definition
GEO_NODE_ID	Numeric (10, 0)	N	A unique, system-assigned identifier for each record.
DEPARTURE_ZONE	Smallint	Y	Distance in feet a vehicle must travel away from the geo node before it is considered departed.
ARRIVAL_ZONE	Smallint	Y	Distance in feet a vehicle must precede the geo node before it is considered arrived.
GEO_NODE_ABBR	Varchar (8)	N	An alpha-numeric identifier of a location at which time is measured.
GEO_NODE_NAME	Varchar (75)	N	The common or public name for a geographic location on a route.
LATITUDE	Numeric (12, 0)	Y	GEO Node's latitude.
LONGITUDE	Numeric (12, 0)	Y	GEO Node's longitude.
ALTITUDE	Numeric (7, 0)	Y	GEO Node's altitude.
REMARK	Varchar (2000)	Y	Free text remark.
DIFFERENTIAL_VALIDITY	Numeric (1, 0)	Y	Value of 0, 1, or 2.
NUM_OF_SATELLITES	Numeric (2, 0)	Y	Number of satellites used to survey this point.
ACTIVATION_DATE	Datetime	Y	Date GEO Node point is to become active.
DEACTIVATION_DATE	Datetime	Y	Date GEO Node point is no longer active.
MAP_LATITUDE	Numeric (12, 0)	Y	The latitude of this node on the map in Route Manager.
MAP_LONGITUDE	Numeric (12, 0)	Y	The longitude of this node on the map in Route Manager.
ANNOUNCEMENT_ZONE	Smallint	Y	Distance in feet a vehicle must be within the geo node before an announcement is played.
NUM_SURVEY_POINTS	Numeric (2, 0)	Y	The number of DGPS positions collected for point surveying, usually a number between 1 and 20.
USE_SURVEY	Bit	N	Indicates if latitude and longitude is from a survey (1) or from a map (0).
MDT_LATITUDE	Numeric (12, 0)	Y	Latitude stored in the corresponding MDT file. Primarily used by TMRouteManager to build MDT files.
MDT_LONGITUDE	Numeric (12, 0)	Y	Longitude stored in the corresponding MDT file. Primarily used by TMRouteManager to build MDT files.
LOCK_MAP	Bit	N	Internal system value.

INCIDENT_GROUP

Entity Name	INCIDENT_GROUP
Primary Keys	INCIDENT_GROUP_ID
Definition	Each entry defines a group of related incident types to be used for reporting.

Attributes

Column Name	Data Type	Null	Definition
INCIDENT_GROUP_ID	int	N	A unique, system-assigned identifier.
INCIDENT_GROUP_TEXT	Varchar (20)	N	Text description of the incident group.

INCIDENT_REPORT_FORM

Entity Name	INCIDENT_REPORT_FORM
Primary Keys	INCIDENT_REPORT_FORM _ID
Definition	The types of incident forms that can be displayed to a user.

Attributes

Column Name	Data Type	Null	Definition
INCIDENT_REPORT_FORM_ID	Numeric (5, 0)	N	A unique, system-assigned identifier.
FORM_TEXT	Varchar (100)	Y	Text description of the form displayed to the user.
FORM_TABLE	Varchar (100)	Y	Obsolete
FORM_HTML	Varchar (max)	Y	HTML definition of the form.

INCIDENT_SUBTYPE

Entity Name	INCIDENT_SUBTYPE
Primary Keys	INCIDENT_SUBTYPE_ID
Definition	Sub categories of incident types.

Attributes

Column Name	Data Type	Null	Definition
INCIDENT_SUBTYPE_ID	Numeric (5, 0)	N	A unique, system-assigned identifier for each record.
INCIDENT_SUBTYPE_TEXT	Varchar (100)	N	The text description of the sub type that is displayed to the user. Examples from the TCIP standard are: 1 Accident 2 Agency's own public transit vehicle 3 Assault on driver 4 Assault on passenger 5 Automobile 6 Bicycle 7 Bridge up 8 Broken seat 9 Bus alarm 10 Congestion 11Construction 12 Crime-drug deal 13 Crime-fight/altercation 14 Crime-harassment 15 Crime-other 16 Crime-robbery 17 Debris 18 Delay 19 Eating 20 Equipment - air conditioning
DEACTIVATION_DATE	Datetime	Y	The date that an item is removed from display within the system (i.e., logical delete).

INCIDENT_TYPE

Entity Name	INCIDENT_TYPE
Primary Keys	INCIDENT_TYPE_ID
Definition	Inventory of incident types, on of which is attached to each incident report.

Attributes

Column Name	Data Type	Null	Definition
INCIDENT_TYPE_ID	Numeric (5, 0)	N	A unique, system-assigned identifier.
INCIDENT_TYPE_TEXT	Varchar (100)	N	Text description for the type of incident.
DEACTIVATION_DATE	Datetime (8)	Y	Date the item is removed from display.
INCIDENT_GROUP_ID	Int	Y	FK to INCIDENT_GROUP table.

IRMA_SENSOR

Entity Name	IRMA_SENSOR
Primary Keys	IRMA_SENSOR_ID
Definition	List of IRMA Sensor status messages.

Attributes

Column Name	Data Type	Null	Definition
IRMA_SENSOR_ID	Integer (4)	N	A unique, system-assigned identifier.
REPORT_TEXT	Varchar (3)	Y	Text description of the IRMA sensor status messages.

LOGON_TYPE

Entity Name	LOGON_TYPE
Primary Keys	None
Definition	Types of vehicle logons. Current values are "log on" and "log off".

Attributes

Column Name	Data Type	Null	Definition
LOGON_TYPE_ID	Tinyint (1)	N	A unique, system-assigned identifier.
LOGON_TYPE_DESCRIPTION	Varchar (20)	N	Text description of the logon type.

MANUAL_PASSENGER_COUNT_CAT

Entity Name	MANUAL_PASSENGER_COUNT_CAT
Primary Keys	MANUAL_PASSENGER_COUNT_CAT _ID
Definition	List of manual passenger count categories and the description for each category.

Attributes

Column Name	Data Type	Null	Definition
MANUAL_PASSENGER_COUNT_CAT_ID	Integer	N	The categories used on the MDT to identify the category that the manual passenger counts are recorded. The category range is 1 – 10.
MANUAL_PASSENGER_COUNT_CAT_DSC	Varchar (50)	N	The text description of the manual passenger count category. The end user can change this label so that a more descriptive label can be used within reports.

MECHANICAL_ALARM_TYPE

Entity Name	MECHANICAL_ALARM_TYPE
Primary Keys	MECHANICAL_ALARM_TYPE_ID
Definition	List of mechanical alarms.

Attributes

Column Name	Data Type	Null	Definition
MECHANICAL_ALARM_TYPE_ID	Integer	N	The unique ID that identifies each record.
MECHANICAL_ALARM_TYPE_DESC	Varchar (50)	N	The text description of the alarm type.
MECHANICAL_ALARM_TYPE_ENABLED	Bit	N	1 = Use this type when reporting alarm types. 0 = Omit this type when reporting alarm types.

MESSAGE_CATEGORY

Entity Name	MESSAGE_CATEGORY
Primary Keys	MESSAGE_CATEGORY_ID
Definition	Used in conjunction with the MESSAGE_INFO table to specify how a message type is used.

Attributes

Column Name	Data Type	Null	Definition
MESSAGE_CATEGORY _ID	Numeric (5, 0)	N	The unique ID that identifies each record.
MESSAGE_TYPE_ID	Tinyint	Y	FK to MESSAGE_TYPE.MESSAGE_TYPE_ID
MESSAGE_CAT_TEXT	Varchar (225)	Y	Text associated with this message category. Max is 22 chars on the mobile side.
CATEGORY_INDEX	Numeric (5,0)	Y	The index within the MDT for this category.
MDT_MESSAGE_DIRECTION	Varchar (1,0)	Y	The route direction that is associated with this message category.
MESSAGE_VERSION_ID	Numeric (5, 0)	Y	FK to MESSAGE_VERSION.MESSAGE_VERSION_ID
PRIOR_VER_CAT_ID	Numeric (5,0)	Y	Internal system value.

MESSAGE_INFO

Entity Name	MESSAGE_INFO
Primary Keys	MESSAGE_INFO_ID
Definition	Pre-defined messages loaded in the MDT.

Attributes

Column Name	Data Type	Null	Definition
MESSAGE_INFO_ID	Numeric (5, 0)	N	A unique, system-assigned identifier for each record.
MESSAGE_VERSION_ID	Tinyint	Y	FK to MESSAGE_VERSION.MESSAGE_VERSION_ID
MESSAGE_INDEX	Numeric (10, 0)	Y	Values 1 - 15. Defined by the application.
MESSAGE_TEXT	Varchar (255)	Y	The text that is displayed to the user. The max is 256 on the mobile side.
DEFAULT_INCIDENT_TYPE_ID	Numeric (5, 0)	Y	FK to INCIDENT_TYPE.INCIDENT_TYPE_ID
DEFAULT_INCIDENT_SUBTYPE_ID	Numeric (5, 0)	Y	FK to INCIDENT_SUBTYPE.INCIDENT_SUBTYPE_ID
MESSAGE_CATEGORY_ID	Numeric (4, 0)	N	FK to MESSAGE_CATEGORY.MESSAGE_CATEGORY_ID
MESSAGE_DATA	Numeric (18, 0)	Y	System generated identifier.
ACTION_PLAN_ID	Numeric (10, 0)	Y	FK to ACTION_PLAN.ACTION_PLAN_ID
INCIDENT_REPORT_REQUIRED	Bit	N	If 1: Auto-generate an incident report. If 0: Do not auto-generate an incident report.

MESSAGE_TYPE

Entity Name	MESSAGE_TYPE
Primary Keys	MESSAGE_TYPE_ID
Definition	A list of message types that can be recognized by the system.

Attributes

Column Name	Data Type	Null	Definition
MESSAGE_TYPE_ID	Numeric (3, 0)	N	A unique, system-assigned identifier for each record.
MESSAGE_TYPE_TEXT	Varchar (50)	Y	Text translation of the message type. Examples: MDT Started message - inbound Dispatch Time Point offsets - outbound Dispatch Initialize Vehicle Settings - outbound Dispatch system parameters - outbound MDT Shutdown message - inbound See *Table 1* (end of this manual) for a complete list of messages.
DISPLAY_ORDER	Integer	Y	Override the display order of this item for a list.

MESSAGE_VERSION

Entity Name	MESSAGE_VERSION
Primary Keys	MESSAGE_VERSION_ID
Definition	Version control for messages. Each record represents a set of messages.

Attributes

Column Name	Data Type	Null	Definition
MESSAGE_VERSION_ID	Tinyint	N	A unique, system-assigned identifier for each record.
MESSAGE_VERSION_TEXT	Varchar (100)	N	A unique, system-assigned identifier for each record.
ACTIVATION_DATE	Datetime	Y	The date this set of messages is activated.
DEACTIVATION_DATE	Datetime	Y	The date this set of messages is deactivated.

NT_GROUP

Entity Name	NT_GROUP
Primary Keys	NT_GROUP_ID
Definition	The Windows NT administrative groups defined by the property to control user access/filtering of fleet information.

Attributes

Column Name	Data Type	Null	Definition
NT_GROUP_ID	Integer	N	The unique, system-assigned identifier for each record.
NT_GROUP_NAME	Varchar (32)	N	The text name of the NT group that is displayed to the user. For example: TM Charter TM Paratransit Maintenance TM FixedRoute Maintenance TM Special TM Training

OFF_ROUTE_TYPE

Entity Name	OFF_ROUTE_TYPE
Primary Keys	OFF_ROUTE_TYPE_ID
Definition	This table contains the list of off route types (categories).

Attributes

Column Name	Datatype	Null	Definition
OFF_ROUTE_TYPE_ID	integer	N	A unique, system-assigned identifier for each record.
OFF_ROUTE_TYPE_ABBR	Varchar (3)	N	Off route type abbreviation.
OFF_ROUTE_TYPE_NAME	Varchar (50)	N	A name which describes the off route type.

OPERATING_MODE

Entity Name	OPERATING MODE
Primary Keys	OPERATING_MODE_ID
Definition	Operating mode of vehicle.

Attributes

Column Name	Data Type	Null	Definition
OPERATING_MODE_ID	Numeric (3, 0)	N	The unique, system-assigned identifier for the operating mode of the vehicle.
DESCRIPTION	Varchar (100)	N	Description of the operating mode. E.g., charter.

OPERATOR

Entity Name	OPERATOR
Primary Keys	OPERATOR_ID
Definition	Each entry represents a transit staff member who operates a vehicle.

Attributes

Column Name	Data Type	Null	Definition
OPERATOR_ID	Numeric (5, 0)	N	The unique, system-assigned identifier for an operator record.
ONBOARD_LOGON_ID	Numeric (7, 0)	Y	Operator logon, or system identifier.
BADGE	Varchar (20)	Y	The public identification for the transit staff person. The official transit property badge or pass displayed by the operator.
FIRST_NAME	Varchar (20)	Y	The first name of an operator.
MIDDLE_NAME	Varchar (20)	Y	The middle name or initial of an operator. Optional.
LAST_NAME	Varchar (20)	N	The last name of the operator.
TRANSIT_DIV_TEXT	Varchar (30)	Y	Transit division of the operator.
DIVISION	Varchar (30)	Y	Transit division of the operator.
DEPARTMENT	Varchar (30)	Y	Operator's department as defined by the property.
ACTIVATION_DATE	Datetime	Y	Operator's begin date.
DEACTIVATION_DATE	Datetime	Y	Operator's end date (null for active operator).
OPERATOR_TYPE_TEXT	Varchar (30)	Y	Type of operator as defined by the property.

PATTERN

Entity Name	PATTERN
Primary Keys	PATTERN_ID
Definition	A unique identifier assigned by a transit agency for a defined sequence of points, events and activation events along a variation of a route. Or, a series/sequence of timepoints (path) from a route start to a route end.

Attributes

Column Name	Data Type	Null	Definition
PATTERN_ID	Numeric (10, 0)	N	A unique identifier assigned by a transit agency for a defined sequence of points, events and activation events along a variation of a route.
PATTERN_ABBR	Varchar (10)	N	An alpha-numeric identifier for a defined sequence of points, events and activation events along a route.
PATTERN_NAME	Varchar (30)	Y	The name for a defined sequence of points and events along a variation of a route that represents a physical path traversed by a transit vehicle in a network.

RADIO_LOAD

Entity Name	RADIO_LOAD
Primary Keys	RADIO_LOAD_ID
Definition	Associated with mobile radio configuration.

Attributes

Column Name	Data Type	Null	Definition
RADIO_LOAD_ID	Numeric (3, 0)	N	Identity or unique key.
DESCRIPTION	Varchar (100)	N	The text description of the radio load that is displayed to the user.

REFERENCE_POINT

Entity Name	REFERENCE_POINT
Primary Keys	REFERENCE_POINT_ID
Definition	A reference point is an absolute location in latitude and longitude. Messages can save space by identifying their location relative to a reference point. A maximum of eight reference points may be defined with only three active at a time.

Attributes

Column Name	Data Type	Null	Definition
REFERENCE_POINT_ID	Integer	N	Unique, system generated identifier.
LATITUDE	Integer	Y	Latitude of reference point.
LONGITUDE	Integer	Y	Longitude of reference point.
ACTIVE	Bit	Y	1 = Reference point is currently active. 0 = Reference point is no longer active.

REVENUE

Entity Name	REVENUE
Primary Keys	REVENUE_ID
Definition	List of revenue types.

Attributes

Column Name	Data Type	Null	Definition
REVENUE_ID	Char (1)	N	Unique, system-assigned identifier for each record.
REVENUE_DESCRIPTION	Varchar (30)	N	One of three values: Revenue, Non-Revenue, or Deadhead.

ROUTE

Entity Name	ROUTE
Primary Keys	ROUTE_ID
Definition	Each entry defines a collection of patterns in revenue service. This is a collection of patterns, and is the way the patterns are organized for presentation to the public on printed schedules. It is not always a simple loop or out-and-back. It may have different paths going out vs. coming back, different paths per time of day, and different end points (like a tree branch fork). Each of these unique paths between a start and end point on a route is a pattern so a route is a collection of patterns.

Attributes

Column Name	Data Type	Null	Definition
ROUTE_ID	Numeric	N	A unique, system-assigned identifier for each record.
ROUTE_GROUP_NAME	Varchar	Y	The property assigned name for the route group.
ROUTE_ABBR	Varchar	N	An alpha-numeric identifier of a collection of patterns in a revenue service. The publicized route identifier; for example 72.
ROUTE_NAME	Varchar	N	Names a collection of patterns in a revenue service.
ISREVENUE	Biit	N	FK to REVENUE.REVENUE_ID
ROUTE_TYPE_ID	Int	Y	FK to ROUTE_TYPE.

ROUTE_DIRECTION

Entity Name	ROUTE_DIRECTION
Primary Keys	ROUTE_DIRECTION_ID
Definition	A set of publicized route directions that will indicate which way a vehicle will travel a route.

Attributes

Column Name	Data Type	Null	Definition
ROUTE_DIRECTION_ID	Numeric (5, 0)	N	A unique, system-assigned identifier for each record.
ROUTE_DIRECTION_ABBR	Varchar (3)	Y	A short, property-assigned text identifier for a route direction that appears on user displays.
ROUTE_DIRECTION_NAME	Varchar (15)	N	A name which describes the direction of a route. 1 N 2 S 3 E 4 W 5 NE 6 NW 7 SE 8 SW 9 Inbound 10 Outbound 11 Circular 12 Destination 13 Clockwise 14 Counter-Clockwise

ROUTE_TYPE

Entity Name	ROUTE_TYPE
Primary Keys	ROUTE_TYPE_ID
Definition	Each entry defines a type of route. E.g., BRT, Express, Circular, Local, etc…

Attributes

Column Name	Data Type	Null	Definition
ROUTE_TYPE_ID	int	N	A unique, system-assigned identifier for each record.
ROUTE_TYPE_ABBR	char (8)	N	A short, property-assigned text identifier for a route type that appears on user displays.
ROUTE_TYPE_DESC	Varchar (50)	Y	A description of the route type.

RTE_GEO_NODE_XREF

Entity Name	RTE_GEO_NODE_XREF
Primary Keys	ROUTE_ID, ROUTE_STOP_SEQUENCE, and ROUTE_DIRECTION_ID
Definition	Stores the logical time points used for a given route and direction.

Attributes

Column Name	Data Type	Null	Definition
ROUTE_ID	Numeric (5, 0)	N	A unique, system-assigned identifier.
ROUTE_STOP_SEQUENCE	Numeric (7, 0)	N	The logical order of this time point on the given route and direction with all pattern branches included. This order is used for display purposes only.
ROUTE_DIRECTION_ID	Numeric (5, 0)	N	FK to ROUTE_DIRECTION.ROUTE_DIRECTION_ID
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
TIME_POINT_ID	Numeric (5, 0)	N	FK to TIME_POINT.TIME_POINT_ID

RUN

Entity Name	RUN
Primary Keys	RUN_ID
Definition	Each entry defines the daily pieces of work assigned to a transit employee. This is what the driver does during their shift. This may exactly match a block, be part of a block (say 2 operators share 10 hour shifts on a block that lasts 20 hours), or several blocks (4 hours on one block and 4 on another). Also known as "Operator Run," "Operator Paddle," or "Block Paddle."

Attributes

Column Name	Data Type	Null	Definition
RUN_ID	Numeric (10, 0)	N	Identifies the piece of work for an operator on a given day type or within a particular schedule.
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
RUN_DESIGNATOR	Varchar (10)	N	The alpha-numeric designator of the run.
RUN_NUM	Numeric (10, 0)	Y	The run number from the third-party scheduling software.

SERVICE_CALENDAR

Entity Name	SERVICE_CALENDAR
Primary Keys	CALENDAR_ID
Definition	A repository of every calendar day of service.

Attributes

Column Name	Data Type	Null	Definition
CALENDAR_ID	Numeric (10, 0)	N	A unique, system-assigned identifier for each record.
CALENDAR_DATE	Datetime	N	The service or calendar date. The time portion of this column should be midnight (00:00:00).
ACTIVATION_TIME	Datetime	Y	Beginning date/time of service day.
DEACTIVATION_TIME	Datetime	Y	Ending date/time of service day.
EXCLUDE_DAY	Bit	Y	1 = Day excluded from National Transit Database (NTD) report.
SECT15_SERVICE_DAY	Char (8)	Y	NTD service day description.

SERVICE_TYPE

Entity Name	SERVICE_TYPE
Primary Keys	SERVICE_TYPE_ID
Definition	A collection of categories that define the levels of service defined for a public transportation operation.

Attributes

Column Name	Data Type	Null	Definition
SERVICE_TYPE_ID	Numeric (3, 0)	N	A unique, system-assigned identifier for each record.
SERVICE_ABBR	Varchar (10)	N	An alpha-numeric identifier of a service type.
SERVICE_TYPE_TEXT	Varchar (30)	N	The schedule that will be run. Examples: 1 Sunday 2 Monday 3 Tuesday 4 Wednesday 5 Thursday 6 Friday 7 Saturday 8 Holiday 9 Weekday 10 Weekend 11 Weekday, school closed
SECT15_SERVICE_TYPE_ID	Numeric (3, 0)	N	National Transit Database (NTD) report service type.

STOP_FEATURE

Entity Name	STOP_FEATURE
Primary Keys	STOP_FEATURE _ID
Definition	A collection of categories that define the features associated with public transportation stops/geographic locations.

Attributes

Column Name	Data Type	Null	Definition
STOP_FEATURE_ID	Numeric (3, 0)	N	A unique, system-assigned identifier for each record.
STOP_FEATURE_TEXT	Varchar (100)	N	A feature, facility, or provision at a stop. (i.e. bench, wind shelter, vending machine).
STOP_FEATURE_CAT_TEXT	Varchar (100)	Y	A free form text field to add a grouping or category designation to a feature (i.e. wooden, hanging, concrete, plastic, blue).

SUBSYSTEM_EVENT_ACTION

Entity Name	SUBSYSTEM_EVENT_ACTION
Primary Keys	SUBSYSTEM_EVENT_ACTION_ID
Definition	A dimension table used in coordination with the SUBSYSTEM_EVENT fact table to describe the event's action.

Attributes

Column Name	Data Type	Null	Definition
SUBSYSTEM_EVENT_ACTION_ID	Integer	N	A unique, system-assigned identifier for each record.
SUBSYSTEM_EVENT_TYPE_ID	Integer	N	FK to SUBSYSTEM_EVENT_TYPE.SUBSYSTEM_EVENT_ID. The event type represents a grouping of related subsystem event actions.
SUBSYSTEM_EVENT_ACTION_DESC	Varchar (50)	N	The name and/or description of the subsystem event action.
SUBSYSTEM_EVENT_ACTION_VAL	Tinyint	Y	The factory identifier value for the subsystem event action.

SUBSYSTEM_EVENT_TYPE

Entity Name	SUBSYSTEM_EVENT_TYPE
Primary Keys	SUBSYSTEM_EVENT_TYPE_ID
Definition	A dimension table used in coordination with the SUBSYSTEM_EVENT fact table to describe the subsystem event type.

Attributes

Column Name	Data Type	Null	Definition
SUBSYSTEM_EVENT_TYPE_ID	Integer	N	A unique, system-assigned identifier for each record.
SUBSYSTEM_EVENT_TYPE_DESC	Varchar (50)	N	The name and/or description of the subsystem event type. The type represents a grouping for related subsystem event actions.
SUBSYSTEM_EVENT_VAL	Tinyint	Y	The factory identifier value for the subsystem event type.

SUBSYSTEM_HEALTH_TYPE

Entity Name	SUBSYSTEM_HEALTH_TYPE
Primary Keys	SUBSYSTEM_HEALTH_TYPE_ID
Definition	Not used. Reserved for a future release.

Attributes

Column Name	Data Type	Null	Definition
SUBSYSTEM_HEALTH_TYPE_ID	Integer	N	Not used. Reserved for a future release.
SUBSYSTEM_HEALTH_TYPE_DESC	Varchar (50)	N	Not used. Reserved for a future release.

TALK_GROUP

Entity Name	TALK_GROUP
Primary Keys	TALK_GROUP_ID
Definition	A mobile radio configuration item.

Attributes

Column Name	Data Type	Null	Definition
TALK_GROUP_ID	Numeric (3, 0)	N	A unique, system-assigned identifier for each record.
RADIO_GID	Numeric (8, 0)	Y	Specifies the agency/fleet/sub-fleet for EDACS radio group calls.
DESCRIPTION	Varchar (100)	N	Description of a talk group.

TIME_OF_DAY

Entity Name	TIME_OF_DAY
Primary Keys	TIME_OF_DAY_ID
Definition	Categories of the time of day as is relates to passenger count, National Transit Database (NTD) reporting and mobile events.

Attributes

Column Name	Data Type	Null	Definition
TIME_OF_DAY_ID	Numeric (5, 0)	N	A unique, system-assigned identifier for each record.
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID
TIME_OF_DAY_TEXT	Varchar (100)	N	Time of day text. Examples: AM Peak, AM Off-Peak, PM Peak, PM Off-Peak, Evening
START_TIME	Numeric (10, 0)	Y	Time of the beginning of the status
END_TIME	Numeric (10, 0)	Y	Time of the end of the status
EARLY_ALLOWED_IND	Varchar (1)	Y	'Y' if vehicle is allowed to arrive early at a time point.
LATE_ALLOWED_IND	Varchar (1)	Y	'Y' if late departure from a time point is permitted.
SECT15_TOD	Varchar (20)	Y	Used by National Transit Database (NTD) reports to classify the time of day. Allowable values are: "AM Peak" or "Midday" or "PM Peak" or "Other"
CURRENT_SET	Bit	N	Indicates the set of TIME_OF_DAY IDs that are used in TMMain.

TIME_POINT

Entity Name	TIME_POINT
Primary Keys	TIME_POINT_ID
Definition	The logical entity that is defined for one or more stops on a route. The time associated with the time point appears on the publicized route schedule and is used to calculate schedule adherence for each driver.

Attributes

Column Name	Data Type	Null	Definition
TIME_POINT_ID	Numeric (5, 0)	N	A unique, system-assigned identifier for each record.
TIME_POINT_ABBR	Varchar (8)	Y	The property abbreviation assigned to the time point.
TIME_PT_NAME	Varchar (50)	Y	The long text name for the time point.

TIME_TABLE_VERSION

Entity Name	TIME_TABLE_VERSION
Primary Keys	TIME_TABLE_VERSION_ID
Definition	Each entry defines a version of a timetable generated by the scheduling/runcutting module.

Attributes

Column Name	Data Type	Null	Definition
TIME_TABLE_VERSION_ID	Numeric (5, 0)	N	Unique system assigned number.
TIME_TABLE_VERSION_NAME	Varchar (30)	N	Name of time table version
ACTIVATION_DATE	Datetime	Y	Date Time table version is to become active
DEACTIVATION_DATE	Datetime	Y	Date Time table version expires.

TRAFFIC_SIGNAL

Entity Name	TRAFFIC_SIGNAL
Primary Keys	TRAFFIC_SIGNAL_ID
Definition	A dimension table used with the TRAFFIC_SIGNAL_EVENT table to describe the traffic signals associated to traffic signal events that occurred.

Attributes

Column Name	Data Type	Null	Definition
TRAFFIC_SIGNAL_ID	numeric (5, 0)	N	FK to TRAFFIC_SIGNAL.TRAFFIC_SIGNAL_ID.
TRAFFIC_SIGNAL_DESC	varchar (60)	N	The name and/or description of the traffic signal.

TRAFFIC_SIGNAL_EVENT_GN_XREF

Entity Name	TRAFFIC_SIGNAL_EVENT_GN_XREF
Primary Keys	None
Definition	A configuration fact table used to show the relationship between TRAFFIC_SIGNAL and EVENT_GEO_NODE tables without requiring a TRAFFIC_SIGNAL_EVENT fact record to exist to define the relationship. Provides for reports to show the group of traffic signals and geonodes without the existence of any traffic signal event occurrences.

Attributes

Column Name	Data Type	Null	Definition
TRAFFIC_SIGNAL_ID	numeric (5, 0)	N	A unique, system-assigned identifier.
EVENT_GEO_NODE_ID	Numeric (5, 0)	N	FK to EVENT_GEO_NODE.EVENT_GEO_NODE_ID.

TRANSIT_DIVISION

Entity Name	TRANSIT_DIVISION
Primary Keys	TRANSIT_DIVISION _ID
Definition	A transit service type category characterized by specific right-of-way, technological, and operational features.

Attributes

Column Name	Data Type	Null	Definition
TRANSIT_DIVISION_ID	numeric (5, 0)	N	A unique, system-assigned identifier.
TRANSIT_DIV_ABBR	varchar (8)	N	Short description of transit division.
TRANSIT_DIV_TEXT	varchar (30)	N	Long description of transit division.

TRIP

Entity Name	TRIP
Primary Keys	TRIP_ID
Definition	A one way movement of a transit vehicle in revenue service between two points. It can also be defined as a scheduled (timed) pattern. Or, the scheduled traversal of a bus over a pattern.

Attributes

Column Name	Data Type	Null	Definition
TRIP_ID	Numeric (10, 0)	N	A unique, system-assigned identifier for each record.
TIME_TABLE_VERSION_ID	Numeric (5, 0)	Y	FK to TIME_TABLE_VERSION.TIME_TABLE_VERSION_ID
TRIP_SERIAL_NUMBER	Numeric (18, 0)	Y	Property-assigned identification for a trip for Section 15 reporting sample.
TRIP_SEQUENCE	Numeric (7, 0)	Y	Trip sequence number within a block (which equals trip start time)
REMARK	Varchar (2000)	Y	Free text remark
BLOCK_TRIP_SEQ	Numeric (7, 0)	Y	A number to order the trips within a block.
SOURCE_TRIP_ID	Numeric (10, 0)	Y	Source trip identifier. Original trip ID from the schedule provider.

TSP_DEVICE

Entity Name	TSP_DEVICE
Primary Keys	TSP_DEVICE_ID
Definition	A dimension table used in coordination with the TRAFFIC_SIGNAL_EVENT fact table to describe the TSP device type that is installed on the vehicle that sent the TSP events.

Attributes

Column Name	Data Type	Null	Definition
TSP_DEVICE_ID	Numeric (3, 0)	N	A unique, system-assigned identifier for each record. Initialized to factory defaults of 1, 2, and 3.
TSP_DEVICE_NAME	Varchar (50)	N	The name and/or description of the TSP device installed on the vehicle.

TSP_TIME_OF_DAY

Entity Name	TSP_TIME_OF_DAY
Primary Keys	TSP_TIME_OF_DAY_ID
Definition	A dimension table used in coordination with the TRAFFIC_SIGNAL_EVENT fact table to describe the TSP interval of time during which the event occurred.

Attributes

Column Name	Data Type	Null	Definition
TSP_TIME_OF_DAY_ID	Numeric (5, 0)	N	A unique, system-assigned identifier for each record.
SERVICE_TYPE_ID	Numeric (3, 0)	Y	FK to SERVICE_TYPE.SERVICE_TYPE_ID.
DESCRIPTION	Varchar (20)	N	The name or description of the TSP time interval.
START_TIME	Numeric (10, 0)	Y	The start time (in seconds past midnight) of the time interval.
END_TIME	Numeric (10, 0)	Y	The end time (in seconds past midnight) of the time interval.

UNITS

Entity Name	UNITS
Primary Keys	UNITS_ID
Definition	Units of measurement (English or Metric) for a given CALENDAR_ID

Attributes

Column Name	Data Type	Null	Definition
UNITS_ID	Integer	N	Unique, system generated identifier.
CALENDAR_ID	Numeric (10, 0)	N	A unique, system-assigned identifier for each record.
APPLIED_UNITS	Varchar (20)	N	Units of measurement (English or Metric) applied for a given property.

VEHICLE

Entity Name	VEHICLE
Primary Keys	VEHICLE_ID
Definition	The inventory of vehicles owned by the transit company. This includes a revenue vehicle or other related vehicle such as security or administration.

Attributes

Column Name	Data Type	Null	Definition
VEHICLE_ID	Numeric (5, 0)	N	A unique, system-assigned identifier for each record.
FLEET_TEXT	Varchar (100)	Y	The text that is displayed to the user for the name of the fleet. Ex. Fixed Route, ParaTransit, Supervisory, Maintenance.
PROPERTY_TAG	Varchar (20)	N	The property tag, or identification for the vehicle.
MFG_MODEL_TEXT	Varchar (100)	Y	Text that defines a vehicle manufacturer, model, and series.
VEHICLE_TYPE_TEXT	Varchar (100)	Y	The text that is displayed to the application user. Examples: Articulated motor bus Automobile Cable car Trolley School bus Service truck Van
RNET_ADDRESS	Numeric (5, 0)	Y	The identifier for the onboard system that is transmitted from the IVLU. If this unit is replaced on a vehicle, the chassis ID module will always remember this number.
VIN	Varchar (20)	Y	Vehicle Identification Number -- "a structured combination of characters assigned to a vehicle by the manufacturer for identification purposes." (ISO 3779-1977 (E))
LICENSE_PLATE	Varchar (20)	Y	The license plate affixed to the vehicle that is provided by the department of transportation.
MODEL_YEAR	Numeric (4, 0)	Y	The manufacturer's model year for this vehicle.
GENERAL_INFORMATION	Varchar (2000)	Y	A free-form text area to record comments about a vehicle.
LOAD_ID	Numeric (3, 0)	Y	Unique identifier of radio load associated with the vehicle.
RADIO_LID	Numeric (8, 0)	Y	The LID (Logical ID) assigned to each EDACS radio which allows dispatchers to make private calls (versus the partyline talkgroups).
ENGINE_CONTROLLER_TEXT	Varchar (20)	Y	Text describing the engine controller
DEFAULT_VOICE_CHANNEL	Numeric (3, 0)	Y	Default channel used for voice communications.
USE_DHCP	Bit	Y	If Yes, IP addresses are dynamically assigned.
IP_OCT_1	Numeric (3, 0)	Y	First octet of vehicle IP address
IP_OCT_2	Numeric (3, 0)	Y	Second octet of vehicle IP address
IP_OCT_3	Numeric (3, 0)	Y	Third octet of vehicle IP address
IP_OCT_4	Numeric (3, 0)	Y	Fourth octet of vehicle IP address
EEPROM_TEMPLATE_ID	Numeric (5, 0)	Y	FK to EEPROM_TEMPLATE.EEPROM_TEMPLATE_ID
DECOMMISSION	Bit	N	If 1, the vehicle has been decommissioned.
VEHICLE_TYPE_DESCRIPTION	Varchar (50)	Y	Descriptive value found in TCIP standard.
VEHICLE_BASE_ID	Numeric (5, 0)	Y	FK To VEHICLE_BASE. VEHICLE_BASE_ID
TOTAL_CAPACITY	Numeric (3, 0)	Y	Maximum number of passengers the vehicle can hold
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
RADIO_LOAD_ID	Numeric (3, 0)	Y	FK to RADIO_LOAD.RADIO_LOAD_ID
TSP_DEVICE_ID	Numeric (3, 0)	Y	FK to TSP_DEVICE.TSP_DEVICE_ID. The type of traffic signal priority emitter device installed on the vehicle.

VEHICLE_AVAILABILITY

Entity Name	VEHICLE_AVAILABILITY
Primary Keys	VEHICLE_AVAILABILITY_ID
Definition	List of values that identifies when or if a vehicle is available for service, for example, full service, limited service, or unavailable.

Attributes

Column Name	Data Type	Null	Definition
VEHICLE_AVAILABILITY_ID	Integer	N	Unique, system generated identifier.
VEHICLE_AVAILABILITY_TEXT	Varchar (100)	N	Textual description of availability.

VEHICLE_BASE

Entity Name	VEHICLE_BASE
Primary Keys	VEHICLE_BASE_ID
Definition	Each entry represents a storage facility for transit vehicles.

Attributes

Column Name	Data Type	Null	Definition
VEHICLE_BASE_ID	Numeric (5, 0)	N	A unique, system-assigned identifier for each record.
VEHICLE_BASE_TEXT	Varchar (100)	N	The name of the storage facility used for parking the public transportation vehicle and assigned pieces of work.
VEHICLE_BASE_ABBR	Varchar (8)	N	The alpha-numeric identifier of the storage facility used for parking the public transportation vehicle and assigned pieces of work.
TRANSIT_DIVISION_ID	Numeric (5, 0)	Y	FK to TRANSIT_DIVISION.TRANSIT_DIVISION_ID
GEO_NODE_ID	Numeric (10, 0)	Y	FK to GEO_NODE.GEO_NODE_ID
TIME_POINT_ID	Numeric (5, 0)	Y	FK to TIME_POINT.TIME_POINT_ID

VEHICLE_EQUIPMENT

Entity Name	VEHICLE_EQUIPMENT
Primary Keys	VEHICLE_EQUIPMENT_ID
Definition	Features or functional items that can be associated with a vehicle.

Attributes

Column Name	Data Type	Null	Definition
VEHICLE_EQUIPMENT_ID	Tinyint	N	The unique, system-assigned identifier for each vehicle equipment item.
DESCRIPTION	Varchar (20)	Y	Text to describe the equipment

WORK_ASSIGNMENT_ROLE

Entity Name	WORK_ASSIGNMENT_ROLE
Primary Keys	ROLE_ID
Definition	The roles that can be assigned to a dispatcher.

Attributes

Column Name	Data Type	Null	Definition
ROLE_ID	Numeric (10, 0)	N	Unique value assigned to each work assignment role.
CONFIGURATION_ID	Numeric (10, 0)	N	Internal system value.
ROLE_VERSION	Varchar (8)	Y	The role version.
ROLE_NAME	Varchar (100)	N	The text name for a role.

WORK_PIECE

Entity Name	WORK_PIECE
Primary Keys	WORK_PIECE_ID
Definition	Each entry defines a piece of work scheduled for an operator. Operator work assignments reflect labor agreements and transit policy considerations. These considerations include platform and layover time and locations, operator paid work time, reporting times, and relief locations and policies.

Attributes

Column Name	Data Type	Null	Definition
WORK_PIECE_ID	Numeric (10, 0)	N	Unique value assigned to each work piece
BEGIN_TIME	Numeric (10, 0)	Y	Time of the beginning of status
END_TIME	Numeric(10, 0)	Y	Time of the end of the status

LIST OF MESSAGES

The following table lists all message types. The three columns to the right indicate if a message is inbound, outbound, or neither (1 = Applicable, 0 = Not Applicable).

Message Type	Inbound (Mobile to Dispatch)	Outbound (Dispatch to Mobile)	Neither (Dispatch to Dispatch)
Unknown	0	0	0
MDT Started	1	0	0
Time Point Offset	0	1	0
Initialize Vehicle	0	1	0
Adjust System Parameters	0	1	0
MDT Shutdown	1	0	0
Return to Network	1	0	0
DGPS Time of Day	0	0	1
DGPS Corrections	0	1	0
Driver logon/logoff	1	1	0
VLU Groups	0	0	0
Vehicle Location	1	0	0
Transfer Request	1	0	0
Transfer Acceptance	0	1	0
Transfer Hold	0	1	0
Timepoint Crossing	1	0	0
MDT Canned Message	1	0	0
Dispatch Canned Message	0	1	0
Mechanical Alarm	1	0	0
Driver Violation	1	0	0
Covert Alarm	1	0	0
Overt Alarm	1	0	0
Request to Talk	1	0	0
10-Digit Code	1	0	0
Subsytem Health	1	0	0
MDT Priority Canned Message	1	0	0
Priority Request to Talk	1	0	0
Switch to Voice Channel	0	0	0
Voice Acknowledgment	1	0	0
Text Acknowledgment	1	0	0
Logon Verification	0	1	0
MDT Ignition Off	0	0	0
Enable Covert Microphone	0	1	0
MT Versions	1	0	0
Alarm Acknowledged	0	0	0
Call Complete	1	0	0
TDMA Control	0	0	0
MT Mobile Events	1	0	0
Block Schedule Broadcast	1	0	1
Block Schedule Request	1	0	1

List of Messages

Message Type	Inbound (Mobile to Dispatch)	Outbound (Dispatch to Mobile)	Neither (Dispatch to Dispatch)
Block Schedule Response	0	1	0
Message Notification	0	0	1
Short Timepoint Crossing	0	0	0
Stopped Too Long	0	0	0
Wheelchair Cycled	1	0	0
Headway Problem	0	0	1
Free Text Message	0	1	0
Dispatch Para Trip	0	1	0
VLU Para Trip	1	0	0
VLU Para Renew	1	0	0
VLU Supervisor	1	1	0
Passenger Count	1	0	0
Enable Mechanical	0	1	0
Call Vehicle-To-Vehicle	1	0	0
Vehicle-To-Vehicle Call Confirm	0	1	0
Farebox Alarm Messages	0	0	0
Engine Controller Info	1	0	0
Fare Count Info	1	0	0
Dispatch Config VLU	0	1	0
Download Completion	0	0	1
Auto Passenger Count	0	0	0
Switch Data Channel	0	0	0
Request Tower Switch	0	0	0
Channel Load Status	0	0	0
MCC Control Message	0	0	0
Map Server Message	0	0	1
S15 Auto Pass Count	1	0	0
Logon Status	0	0	0
Adherence Warning	0	0	1
Transfer Approval Request	0	0	1
Vehicle-To-Vehicle Call Approval	0	0	1
Dispatch Para Trip Plus	0	1	0
Dispatch Change Para Trip	0	1	0
VLU Para Trip Plus	1	0	0
Paratransit Information	1	0	0
Paratransit Trip Ack	1	0	0
Switch to Voice (Multiple)	0	1	0
Canned Message (Multiple)	1	0	0
Free-Text Message (Multiple)	1	0	0

REVISION HISTORY

DataMart™ Data Dictionary (*Microsoft*® *SQL Server*® *Database*) Updates

New or Revised Feature	Description
Release 26.0.1.2: *50M0034-002-B*	*September 30, 2010*
PASSENGER_COUNT	Clarified MESSAGE_TIME column definition: • Time of last door closure in seconds past midnight.
Release 26.0.1.2: *50M0034-002-A*	*August 31, 2010*
Fact Tables	The following new fact tables were added: • FLEET_ACTAUL_HOURS • FLEET_ACTUAL_DISTANCE • FLEET_PASSENGER_DISTANCE
New Customer Support Information	Added new Customer Support phone number and e-mail address to the Disclaimer page. Effective August 16, 2010.
Release 26.0.0.12: *Version A*	*April 15, 2010* *Updated documentation from release 25.1.0.7 TO 26.0.0.12.*
General Manual Updates	Added the following disclaimer: If you create or change a view, you must allow schema alterations for any tables contained within that view.
	Branding updated to Trapeze ITS U.S.A., LLC.
Manual updates for columns: CHANGE_HISTORY COMMENTS TRANSMITTED_MESSAGE_ID TRANSMITTED_MESSAGE_ID_ON	CHANGE_HISTORY and COMMENTS column data types updated to ***Varchar (max)*** in the following fact table: • INCIDENT_REPORT TRANSMITTED_MESSAGE_ID column data type updated to ***Bigint*** in the following fact tables: • DAILY_MESSAGE_TEXT • FAREBOX_ALARM • MDT_SOFTWARE_VERSIONS • PASSENGER_COUNT_DIAG • SUBSYSTEM_EVENT • SUBSYSTEM_HEALTH TRANSMITTED_MESSAGE_ID_ON column data type updated to ***Bigint*** in the following fact table: • VEHICLE_FAULT_CODES
Fact Tables:	OFF_ROUTE: • A new column, OFF_ROUTE_TYPE_ID, was added.
	PASSENGER_COUNT: Added the following columns to PASSENGER_COUNT table: • BOARD_MSG • ALIGHT_MSG • DEPARTURE_LOAD_MSG
Dimension Tables	ACTION_PLAN: • ACTION_PLAN_DOC_TEXT data type updated to ***Varchar (max)***.
	INCIDENT_REPORT_FORM: • FORM_HTML data type updated to ***Varchar (max)***.
	OFF_ROUTE_TYPE: • A new table, OFF_ROUTE_TYPE was added.
Release 25.1:	*August 14, 2009:*

Revision History

New or Revised Feature	Description
Version A	*Updated documentation from release 24.2.1.1 to 25.1.0.7*
Manual updates for columns: PULLIN_TIME_OF_DAY_ID PULLOUT_TIME_OF_DAY_ID TIME_OF_DAY_ID TIME_OF_DAY_ID_ON TIME_OF_DAY_ID_OFF	TIME_OF_DAY column datatypes were updated from Numeric (3, 0) to Numeric (5, 0) in the following fact tables: ▪ ADHERENCE ▪ BIKE_RACK_ACTIVITY ▪ DAILY_MESSAGE_TEXT ▪ FAREBOX_ALARM ▪ MANUAL_PASSENGER_COUNT ▪ OFF_ROUTE ▪ PASSENGER_COUNT ▪ PASSENGER_COUNT_RAW ▪ SCHEDULE ▪ SUBSYSTEM_EVENT ▪ SUBSYSTEM_HEALTH ▪ VIDEO_EVENT ▪ VIOLATIONS ▪ WHEELCHAIR_CYCLED_COUNT ▪ WHEELCHAIR_DWELLTIME TIME_OF_DAY_ID and TSP_TIME_OF_DAY_ID column datatypes were updated from Numeric (3, 0) to Numeric (5, 0) in the following supporting DataMart tables: ▪ TIME_OF_DAY ▪ TSP_TIME_OF_DAY
	TIME_OF_DAY_ID_ON, TIME_OF_DAY_ID_OFF, TSP_TIME_OF_DAY_ID, PULLOUT_TIME_OF_DAY_ID, and PULLIN_TIME_OF_DAY_ID columns updated from Numeric (3, 0) to Numeric (5, 0) in the following tables: ▪ LOGON ▪ MECHANICAL_ALARM ▪ TRAFFIC_SIGNAL_EVENT ▪ VEHICLE_FAULT_CODES ▪ VEHCILE_PULLOUT_PULLIN
Manual updates for the following fact table columns: ODOMETER ODOMETER_ON ODOMETER_OFF STARTING_ODOMETER ENDING_ODOMETER CHECK-IN_ODOMETER CHECK-OUT_ODOMETER LAST_TSP_DISABLE_ODOMETER LAST_TSP_ENABLE_ODOMETER CYCLED_COUNT_ODOMETER	Revised ODOMETER column description. Total distance traveled by the vehicle. Depending on configuration, may display in miles or kilometers. Display in units of 100ths (0.01) miles or (0.016) kilometers.
Fact Table: COMM_ACK	Updated ACK_FLAG column Data Type from bit to tinyint.
Fact Table: INCIDENT_HISTORY	A new fact table, INCIDENT_HISTORY, was added. The INCIDENT_HISTORY table defines a past incident from the TMBusOps incident queue. The record contains information about the incident, including details about event(s) that triggered the incident, users that worked on the incident and the action steps taken at what time.
Fact Table: INCIDENT_REPORT	▪ A new column, INCIDENT_DIRECTION, was added. ▪ ROUTE_NAME column updated from Varchar (35) to Varchar (75).
Fact Table: PASSENGER_COUNT	The DOOR_NUMBER column is now obsolete. Refer to the PASSENGER_COUNT_DETAILS table for verbose door information.
Supporting DataMart Table:	A new supporting datamart table, INCIDENT_GROUP, was added.

New or Revised Feature	Description
INCIDENT_GROUP	
Supporting DataMart Table: INCIDENT_SUBTYPE	DISPLAY_ORDER column was removed.
Supporting DataMart Table: INCIDENT_TYPE	• A new column, INCIDENT_GROUP_ID, was added. • DISPLAY_ORDER column was removed.
Supporting DataMart Table: ROUTE	A new column, ROUTE_TYPE_ID, was added.
Supporting DataMart Table: ROUTE_TYPE	A new supporting datamart table, ROUTE_TYPE, was added. The ROUTE_TYPE table defines a type of route. E.g., BRT, Express, Circular, Local, etc…
Supporting DataMart Table: RTE_GEO_NODE_XREF	Primary keys now include: ROUTE_ID, ROUTE_STOP_SEQUENCE, and ROUTE_DIRECTION_ID.
Supporting DataMart Table: TRIP	A new column, SOURCE_TRIP_ID, was added.
Release 24.2: *Revision A*	*Updated documentation from release 24.1.0.5 to 24.2.1.1*
ADHERENCE	Added the following column to ADHERENCE fact table: • **PATTERN_GEO_NODE_SEQ**
PASSENGER_COUNT	Clarified the following definitions: • MESSAGE_TIME • LATITUDE • LONGITUDE • ODOMETER • CONFIDENCE
SERVICE_SELECTION	Updated SERVICE_TYPE_ID Data Type from 5 to 3.
Supporting DataMart Tables	Added the following Supporting DataMart Tables: • RTE_GEO_NODE_XREF
Release 24.1: *Revision A*	*Updated documentation from release 24.0.0.9 to 24.1.0.5*
SCHEDULE	Added the following column to SCHEDULE fact table: • **REQUIRED_ANNOUNCEMENT**
SERVICE_SELECTION	Added **SERVICE_SELECTION** fact table to manual.
Release 24.0: **Revision B**	*Updated documentation from Release 24.0.0.8 to 24.0.0.9*

SUBSYSTEM_EVENT	• Added the following columns to the SUBSYSTEM_EVENT diagram and definitions table:
	  • **RESERVED_1**
	  • **RESERVED_2**
	• Updated **SCHEDULE_ADHERENCE** column Data Type from *tinyint to smallint*.

TRAFFIC_SIGNAL_EVENT	Added **TRAFFIC_SIGNAL_EVENT** diagram and table definitions to manual.
Supporting DataMart Tables	Added the following Supporting DataMart Tables: • **EVENT_GEO_NODE** • **TRAFFIC_SIGNAL** • **TRAFFIC_SIGNAL_EVENT_GN_XREF** • **TSP_DEVICE** • **TSP_TIME_OF_DAY**
	Added the following column to the **SUBSYSTEM_EVENT_ACTION** table: • **SUBSYSTEM_EVENT_ACTION_VAL**
	Added the following column to the **SUBSYSTEM_EVENT_TYPE** table: • **SUBSYSTEM_EVENT_VAL**
	Added the following column to the **VEHICLE** table:

Revision History

New or Revised Feature	Description
	• **TSP_DEVICE_ID**
Release 24.0: Revision A	*Updated documentation from Release 23.1.0.6 to 24.0.0.8*
General Manual Updates	• Branding in footer and left navigation panes updated to Continental. • Revision History moved to back of manual. • *Trademarks Referenced in this Manual* moved to back of "From the Publication Staff" page.
ADHERENCE	Added the following column to the ADHERENCE diagram and definitions table: • **IS_BATCHSTORAGE**
INCIDENT_REPORT	Updated the following column in the INCIDENT_REPORT diagram and definitions table: • MILES_LOST renamed **DISTANCE_LOST**.

PARA_DISTANCE_HOURS	• PARA_MILES_HOURS table renamed **PARA_DISTANCE_HOURS**.
	• Updated the following columns in the PARA_DISTANCE_HOURS diagram and definitions table:
	  • Column REVENUE_MILES renamed **REVENUE_DISTANCE**.
	  • Column DEADHEAD_MILES renamed **DEADHEAD_DISTANCE**.

PARA_PASSENGER_DISTANCE	• PARA_PASSENGER_MILES table renamed **PARA_PASSENGER_DISTANCE**. • Updated the following column in the PARA_PASSENGER_DISTANCE diagram and definitions table: Column PASS_MILES renamed **PASS_DISTANCE**.

RAIL_DISTANCE	• RAIL_MILES table renamed **RAIL_DISTANCE**.
	• Updated the following columns in the RAIL_DISTANCE diagram and definitions table:
	  • Column REVENUE_MILES renamed **REVENUE_DISTANCE**.
	  • Column NONREVENUE_MILES renamed **NONREVENUE_DISTANCE**.

VEHICLE_DISTANCE	• VEHICLE_MILEAGE table renamed VEHICLE_DISTANCE. • Updated the following column in the VEHICLE_DISTANCE diagram and definitions table: Column TOTAL_MILES renamed **TOTAL_DISTANCE**.
WHEELCHAIR_DWELLTIME	Added **WHEELCHAIR_DWELLTIME** diagram and column definitions to manual.
Supporting DataMart Tables: UNITS	Added **UNITS** to Supporting DataMart Tables section of manual.
Release 23.1: Revision B	
	Updated Siemens logo and copyright information with Continental Corporation.
	Updated Table of Contents
Release 23.1: Revision A	*Updated document from Release 23.01.4 to 23.1.0.6*
	Added the following columns to ADHERENCE table: • IS_VEHICLE_STOPPED • IS_DOOR_OPENED • FIRST_LOC_STOP_TIME • FIRST_DOOR_OPEN_TIME • CLOSEST_LOC_TIME • LAST_DOOR_CLOSE_TIME • LAST_LOC_START_TIME
Release 23.0: Revision B	*Updated document from Release 23.0.0.8 to 23.0.1.4*
	Added the following diagram and table definitions: • PASSENGER_COUNT_DETAIL • PASSENGER_COUNT_RAW Added the following *Supporting DataMart* tables: • OPERATING_MODE

New or Revised Feature	Description
Release 23.0: Revision A	*Updated document from Release 22.0.0.6 to 23.0.0.8*
	Added the following column to ADHERENCE table: • OVERLOAD_ID Added the following column to PASSENGER_COUNT table: • OVERLOAD_ID Added the following column to MDT_SOFTWARE_VERSIONS table: • ROUTE_VERSION_MINOR Added the following diagram and table definition: • PASSENGER_COUNT_DIAG
	Added the following Supporting DataMart table: • IRMA_SENSOR
Release 22.0: Revision A	*Updated document from Release 21.1.0.8 to 22.0.0.6*
	Updated the following table definition to INCIDENT_REPORT: • LOCATION_AT Updated the following table definition to TIME_OF_DAY: • CURRENT_SET
Release 21.1: Revision A	*Updated document from Release 21.0.0.8 to 21.1.0.8*
	Added the following diagrams and table definitions: • BIKE_RACK_ACTIVITY • DISPATCH_USER_ACTIVITY • SUBSYSTEM_HEALTH • VIDEO_EVENT
	Updated the following table definition to COMM_HISTORY: • COMMENTS
	Added the following Supporting DataMart table: • BIKE_RACK_ACTIVITY_TYPE
	Updated the following Supporting DataMart tables: • MANUAL_PASSENGER_COUNT_CAT • MECHANICAL_ALARM_TYPE
	Updated the following Trip Supporting DataMart table definitions: • TRIP_SEQUENCE • BLOCK_TRIP_SEQ
Release 21.0: Revision A	*Updated document from Release 20.0.0.9 to 21.0.0.8*
	Updated the following table definition to RUN: • RUN_DESIGNATOR
	Updated the following table definition to INCIDENT_REPORT: • RUN_NAME
	Updated Confidence column in the following tables: 1. MANUAL_PASSENGER_COUNT 2. PASSENGER_COUNT
Release 20.0: Revision A	*Updated document from Release 19.2.0.12 to 20.0.0.9*
	This document only supports SQL Database. An Oracle version is also available. Refer to part number: 50M0019-001-A.
Release 19.2: Revision B	*Updated document from Release 19.2.0.8 to 19.2.0.12*
	Added new column Confidence to the following: 1. MANAUL_PASSENGER_COUNT 2. PASSENGER_COUNT
Release 19.2: Revision A	*Updated document from Release 19.1 to Release 19.2.0.8*
	1. RAIL_MILES
Release 19.1: Revision A	*Updated document from Release 19.0.1.2 to Release 19.1*
	Updated the following table definitions:

Revision History

New or Revised Feature	Description
	1. INCIDENT_REPORT 2. MECHANICAL_ALARM
	Added the following diagram and table definitions: 1. VEHICLE_MILEAGE
Release 19.0: Revision C	*Updated document from Release 18.1 to Release 19.0.1.2*
	Updated the following table definitions to MECHANICAL_ALARM: • ADHERENCE_ON • ADHERENCE_OFF Updated the following table definitions to REFERENCE_POINT • REFERENCE_POINT_ID
	Added the following diagrams and table definitions: 1. BLOCK_ACTIVITY 2. LOGON_HISTORY 3. MESSAGE_ACTIVITY 4. MESSAGE_TYPE_ACTIVITY 5. STOP_FEATURE_XREF 6. VEHICLE_EQUIPMENT_XREF
	Added the following *Supporting DataMart* tables: 1. FORM_SELECTION 2. INCIDENT_REPORT_FORM 3. INCIDENT_TYPE 4. LOGON_TYPE 5. MANUAL_PASSENGER_COUNT_CAT 6. STOP_FEATURE 7. TRANSIT_DIVISION
Release 18.1: Revision A	*Updated document from Release 17.3.1.9 to Release 18.1.*
	Added the following table definitions to INCIDENT_REPORT: • LOG_MACHINE_NAME • LATITUDE • LONGITUDE • EDIT_LOCK • ON_ROUTE_DATE_TIME • ON_ROUTE_LOCATION • ON_ROUTE_LATITUDE • ON_ROUTE_LONGITUDE • ON_ROUTE_LOCATION_AT • MESSAGE_TYPE_ID • MESSAGE_CAT_ID • MESSAGE_INDEX
Release 18.0: Revision A	*Updated document from Release 17.3.11.1 to Release 18.0.5.1*
	Changed SCHED_ADHERE_WAIVER_ID to numeric (9,0) in the following table definitions: • ADHERERENCE • ADHERENCE_WAIVER_ACTIVITY • MANUAL_PASSENGER_COUNT • OFF_ROUTE • PASSENGER_COUNT • SCHED_ADHERE_WAIVER • SCHEDULE • VIOLATIONS
	Changed BLOCK_NUM to numeric (9,0) in the BLOCK Supporting DataMart Table.

New or Revised Feature	Description
	Removed the following: • STOP_FEATURE • STOP_FEATURE_XREF
Release 17.3: Revision E	*Updated document from Release 17.3.1.9 to Release 17.3.11.1*
	Added the following diagrams and table definitions: • LOGON_HISTORY • STOP_FEATURE_XREF
	Added the following tables to Supporting DataMart Tables: • FORM_SELECTION • INCIDENT_REPORT_FORM • INCIDENT_TYPE • LOGON_TYPE • MANUAL_PASSENGER_COUNT_CAT • STOP_FEATURE • TRANSIT_DIVISION
	Updated the following tables: • INCIDENT_REPORTS • MDT_SOFTWARE_VERSIONS • OFF_ROUTE
	Moved the following tables from Supporting Tables to Diagrams and Table Definitions: • BLOCK_ACTIVITY • MESSAGE_ACTIVITY • MESSAGE_TYPE_ACTIVITY • VEHICLE_EQUIPMENT_XREF
Release 17.3:	
Revision D	Initial release.

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DataMart™ Data Dictionary – Microsoft® SQL Server® Database

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