Garmin Fleet Management Interface

The Garmin Fleet Management / Navigation interface enables fleet tracking, messaging, dispatch, and navigation directly on Garmin's portable navigation devices. Fleet dispatchers can send multiple destinations and other instructions directly to their drivers. With a tap on the screen, drivers can access detailed turn-by-turn, text-to-speech, voice-prompted directions to their destinations. Automatic estimated time of arrival (ETA) can be sent back to the fleet dispatcher for timely information and reduced operating costs.

The Garmin Fleet Management / Navigation interface offers a comprehensive palette of advanced functionality to support the development of feature-rich fleet management applications, utilizing features such as navigation, user-identification, messaging, route planning, custom forms, speed alerts, sensor display, and estimated time of arrival notifications.

The combination of the powerful RTCU M2M Platform with the features offered with the Garmin Fleet Management / Navigation interface opens up for a wide range of application areas, where a connected navigation is a crucial parameter for successful integration. Combining the I/O capabilities available on the RTCU MX2 turbo device, including I/O, CAN-bus and 1-Wire, with the powerful features of the Garmin Fleet Management / Navigation API offer the fleet dispatcher the right answers to questions such as:

- Vehicle location.
- Driver identification and current status.
- Speed, direction, and distance of travel.
- Speed limit alerts.
- Battery and themostat levels.
- Cargo temperature.

- Information from custom forms.
- Elapsed time and estimated time of arrival.
- Fuel status.
- Idle time, number, and status of stops.
- Speed limit alerts.
- Driver performance and vehicle maintenance.

Navigation Device — RTCU Interface Cable — RTCU Device — GPRS Network — Server Applications

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The Fleet Management / Navigation Interface Application Programmers Interface (API) utilizes an advanced multithreading event-based interface and includes almost all features from the latest Garmin FMI version 3.6 specification grouped into the following categories:

- ♦ **Navigation Management**
  General functions to manage the interface, such as establishing device connection, versioning, serial-number, wait-for-event, remote boot device, and enter safe mode.
- ♦ **User Identification**
  Identify up to 3 drivers, user status management.
- ♦ **Text Messaging.**
  Sending/receiving text messages and quick messages with predefines responses.
- ♦ **Route Management.**
  Maintaining a number of stop destinations defining a route.
- ♦ **Estimated Time of Arrival (ETA).**
  ETA notifications for current destination.
- ♦ **GPI file transfer.**
  Transfer Garmin Point of Interest (GPI) files to the Garmin device.
- ♦ **Waypoint management.**
  Maintaining waypoints with user-defined point of interests.
- ♦ **Sensor display.**
  Display of sensor data to the user. Any data can be presented and not necessarily from physical sensors.
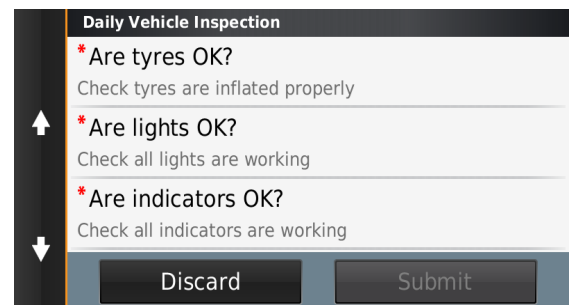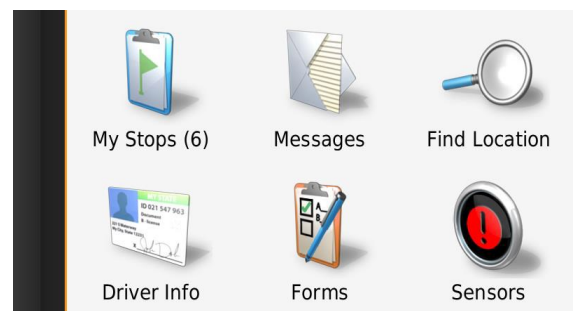- ♦ **Avoidance areas.**
  Managing areas that must be avoided during a route.
- ♦ **Custom forms.**
  Powerful functionality to create completely custom defined forms to be filled in by the user.
- ♦ **Speed Limit alerts.**
  Configuration of speed limit alerts.

GARMIN

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