Track, dispatch and communicate with drivers anywhere, anytime using a Garmin FMI-enabled device and IsatData Pro satellite service.

The SkyWave Garmin FMI (Fleet Management Interface) solution is a product that can be customized and deployed with existing fleet management applications. It allows SkyWave Solution Providers (SPs) to provide integrated tracking, navigation, driver communication and dispatch capabilities using off-the-shelf Garmin Personal Navigation Devices (PNDs) as the human interface. With the SkyWave Garmin FMI solution, SPs can quickly offer features like text messaging capabilities in multiple languages, delivery and Stops management functions and security features that are customized to their customer’s needs.

The SkyWave Garmin FMI solution can be installed on any IDP-600 and IDP-800 series satellite devices as well as the IDP-780/790 flex satellite-cellular devices.

Channel Benefits of SkyWave Garmin Solution

- **Quick to market**: The solution simplifies the addition of comprehensive in-vehicle communication to fleet management solutions. It also provides the platform to reduce the number of messages that need to be sent over the air, resulting in lower airtime costs.

- **Industry compatibility**: Instead of using proprietary data terminals, SPs can now offer an off-the-shelf human interface with an industry-standard QWERTY touch-screen keyboard with wide industry acceptance. A list of Garmin devices that support the FMI protocol can be found on the Garmin website.

- **Complete coverage**: Deploying a fleet management solution that includes satellite means reliable communication regardless of the cellular coverage.
How SkyWave Garmin FMI Solution Works

The SkyWave Garmin FMI Solution consists of two software components: the SkyWave Garmin API and the SkyWave Garmin Dispatch agent.

- **The SkyWave Garmin API** is installed on the IDP terminal and allows it to “talk” with Garmin FMI-enabled devices using an IDP Garmin development cable (available from SkyWave). The API is the interface to develop text messaging, Stop management and tracking features. Once SPs develop the driver’s interface using the SkyWave Garmin API, they can create their own Lua application for over-the-air messaging or choose to use the SkyWave Garmin Dispatch agent.

- **The SkyWave Garmin Dispatch agent**, also installed on the IDP terminal, provides the messaging between the IDP terminal and the SP’s fleet management application. It allows SPs to configure Garmin start-up screen messages, quick messages and driver ID’s and passwords over-the-air without having to program in Lua. It also optimizes the amount of information sent over the satellite network, keeping airtime costs down.

- The IsatData Pro satellite network and IDP terminals provide the wireless communication link regardless of the location of the vehicle and cellular network availability.

The SkyWave Garmin FMI Solution is a modular product. SPs can subscribe to just the SkyWave Garmin API or add the SkyWave Garmin Dispatch Agent – it all depends on the desired amount of Lua development.
Features of SkyWave Garmin FMI Solution

- **Text-message**: Free-Text messages of up to 2,000 bytes in multiple languages can be sent or received with this solution. SPs can also include features like (i) show a pop-up notification when a new text message is received; (ii) send confirmation when messages have been read by the driver and (iii) use GPS information to provide awareness of driver’s current location.

- **Canned Messages**: Pre-defined (canned) messages can be programmed to standardize driver communication and reduce airtime costs. They can also be used to prompt the driver to complete a form or to invoke commands on the IDP terminal such as checking position or sensor I/O state.

- **Stops (Destination)**: Drivers can have a complete list of Stops in a single screen. The Garmin PND can also answer questions like (i) which Stop is in progress; (ii) is the driver en route or at a Stop, and (iii) which and how many Stops have been completed. It can also provide confirmation that the driver has read the details about a Stop, is moving towards it or has deleted it. Finally, dispatchers can define or update Stops with a custom text message to the driver.

- **Estimated Time of Arrival (ETA) and Auto-Arrival at Stop**: The solution can be programmed to allow dispatchers to (i) request the ETA of the current Stop; (ii) detect when the driver has arrived; (iii) send confirmation to the dispatcher and (iv) begin navigating to the next Stop.

- **Hours of Service (HOS)**: Use the Garmin PND to track, collect and display number of driving hours by driver to comply with government regulations.

- **Electronic Forms**: The solution can be used to exchange information with drivers like delivery details and parts used in service calls through custom electronic forms. These forms can be created by the Solution Provider and updated over the air.

- **Waypoints**: Custom waypoints (or points of interest) can be configured to be displayed on the Garmin maps.

- **Driver ID**: Authentication and status can log the “who, what, when and where” for every vehicle.

- **Speeding**: Speed limit alerts based on local map data help to ensure safe driving habits.

- **Remote Configuration**: With the SkyWave Garmin FMI Solution all of the above features can be configured or updated remotely even if the vehicle and PND are on the road.