

TRIMBLE OFFERS MULTIPLE WAYS TO INTEGRATE YOUR GPS FLEET MANAGEMENT DATA

The Trimble Fleet Solutions gives you multiple ways to integrate data from your Trimble GeoManager solution with the software you already use today. Data integration options include Application Programming Interfaces (API), DirectData, NMEA, Trimble GeoManager Fleet Management reports data download and Web Services so you can increase the benefits you get from your Trimble GeoManager data.

KEY BENEFITS

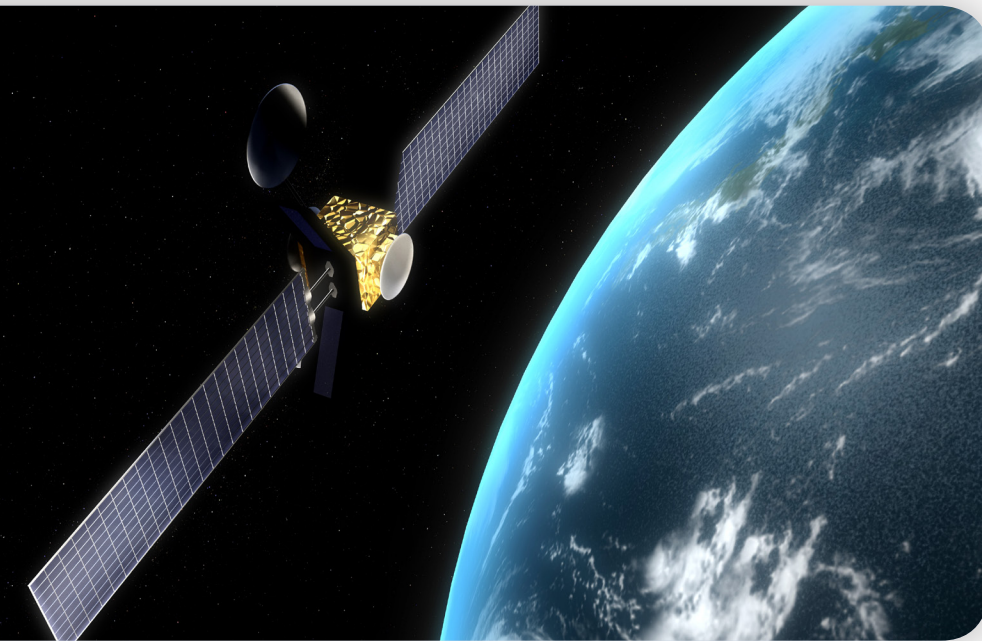
- Decrease your manual data entry by automatically sending data to other applications
- Increase your operational efficiency by centralizing and streamlining data views

INTEGRATION EXAMPLES

- ERP, accounting, billing and payroll integration helps resolve billing disputes more quickly
- Order entry and workflow integration reduces order to cash cycle time
- Scheduling, dispatching, GIS and mapping integrations help optimize workflow

“Previously, our dispatchers spent too much time performing low-value-added data entry. They now save about an hour of time each day, which allows them to better cater to the various requests of our customers.”

- Doug Grane, Senior Vice President for Central States Trucking



APPLICATION PROGRAMMING INTERFACES

Trimble APIs provide a secure, two-way data flow to and from your Fleet Management account by employing industry-standard XML requests and responses that link to different applications or back-end databases, such as routing or payroll programs.

Trimble API solutions securely link applications by employing industry standard XML requests and responses that use a standard set of location service tags to identify individual fields within a request and response.

In addition, Trimble provides software templates to facilitate rapid development and integration to your existing or third party applications.

Standard APIs:

- Get Vehicle Location
- Get List of Close Vehicles to Lat/Lon, Address or Landmark
- Location History
- Device List
- Get Fleet Location

Messaging APIs:

- Define Form
- Send Outbound Forms or Text Messages
- Get Send Form or Text Message Status
- Delete Form
- Get Form Definitions
- Send Form or Messages in Sequence
- Get Inbound Forms or Text Messages

Admin APIs:

- Create, Edit, and Delete Landmarks
- Update Vehicle Information
- WLAN, DOT and Driver Information

DIRECT DATA

Trimble DirectData sends location and messaging data near real time to your back-office systems, making your Fleet Management data easily accessible. Using an open platform for maximum flexibility, this service provides one-way data flow to enhance and streamline your fleet tracking data so your managers and dispatchers get the information they need in an application they know.

DirectData employs open-standard XML and leading security and encryption capability to continuously transmit location, landmark, messaging, form and Exception data from Fleet Management, into your back-office applications.

- Easy integration of your Fleet Management data with existing database(s) and applications
- "Always on" XML-based transmission capability means data continuously flows from Trimble to your back office applications
- 128-bit encryption and authentication security

NMEA

NMEA feeds industry standard GPS location data to third party applications or devices, allowing your drivers and field technicians to get turn-by-turn directions, mapping and other location based information that

helps get them the information they need, when they need it.

- Feeds GPS location data to 3rd party applications for driving directions, mapping and other location based information
- Updates turn-by-turn directions while the vehicle is in route

REPORTS

Fleet Management reports can be saved in Excel, comma-delimited and tab-delimited formats, allowing you to save and upload report information to company databases or other back-office applications.

- Save reports to .xls, .csv or .tsv formats
- Upload report data to company databases or other applications

WEB SERVICES

Web Services allows you to integrate Work Management data with third party systems using networked resources whose functions and logic are accessible with standard internet protocols and data formats such as HTTP, XML and SOAP.

Web Services offers two types of service:

- Task Management to create, update and cancel tasks
- Schedule Management to assign, unassign and dispatch tasks to resources

For more information about Trimble Options for Data Integration, visit www.trimble.com/fleet or contact your Trimble sales representative at MRMinfo@trimble.com or 1-877-728-7623.

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