

20 August 2008

Trimble Construction Manager Software

What is the Trimble Construction Manager software?

Built specifically for the construction industry, the Trimble® Construction Manager software provides a powerful, yet easy-to-use solution for companies to manage equipment such as dump trucks, fuel trucks, graders, loaders, and generators. It brings together a variety of different types of information, including location, hours, and user-defined events and alerts, to provide an overview of construction operations. This information can also be used for in-depth analysis.

Users access information about their equipment on a computer screen by using a map view, running on-demand reports or charts, or by using an automatically updating dashboard view. With the alerts feature, users can automatically be notified of unexpected activity by email or SMS messaging, which can aid in theft recovery of an asset. Scheduled reports emailed at regular intervals ensure that the right information gets to the right people at the right time.

The Trimble Construction Manager software uses GPS-based positioning hardware and widely available GSM/GPRS wireless networks to provide information to a secure data server. The Internet-based Trimble Construction Manager software displays information about the equipment in real time and facilitates the optimization in deployment of the equipment all from one graphical interface. The software provides customized reporting capabilities to address a company's unique business needs and can be used with Microsoft® Office Excel® spreadsheet software. Using the Trimble Construction Manager, contractors can realize lower operating costs, reduced fuel consumption, and improved equipment productivity and utilization, resulting in a rapid return on investment.

How will the Trimble Construction Manager software help me save time and money?

The Trimble Construction Manager software is designed to reduce construction project costs through enhanced equipment utilization, increased safety, theft recovery, and a better, more detailed understanding of a construction company's operations.

How does the Trimble Construction Manager software work?

The Trimble Construction Manager software provides an interface for the user that links all assets, user created sites and maps to manage your company's construction operations in real time. A variety of

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reports provide a wealth of information regarding the activity of assets up to 90 days ago, enabling you to improve asset productivity and your profitability.

Wireless data communication: Information is transmitted between assets and the Trimble Construction Manager software over cellular networks with the option of a variety of cellular providers. You may also select from a variety of monthly data plans, so you can access the data for each asset when you need it—for example, once or twice per day for a portable asset, or every minute for a mobile asset.

Global Positioning System (GPS): Assets are equipped with the latest in GPS technology to provide immediate location information, even in the difficult environments typically found on a construction site. A variety of hardware options are available to make sure that you have the right solution for the right asset.

Internet: The Internet provides connectivity for the software to access the most up-to-date maps commercially available. This also eliminates the need for excessive hard drive space or manual updates of map data because maps are not stored on the computer. Asset data is stored securely on data servers, and access to data is protected by user name and password authentication, ensuring that your data is safe, yet easily accessible to you or your staff, whenever you need it.

What if my job sites are out of wireless network coverage?

When a Trimble hardware device (attached to an asset) enabled with the Trimble Construction Manager software moves out of a wireless coverage area, the unit can store the most recent 14 days of data (may vary based on the device) and then report that data to the Trimble Construction Manager software when GPRS coverage is available.

What construction assets are recommended for the Trimble Construction Manager software?

The Trimble Construction Manager software, along with its enabling hardware, can support any construction asset that has a battery source.

What hardware devices are supported by the Trimble Construction Manager software?

The Trimble Construction Manager software is currently supported by three Trimble hardware devices:

- The CrossCheck[®] Global Locator
- The CrossCheck Lite Global Locator
- The TrimTrac[®] Pro Locator

What are the key features of the Trimble Construction Manager software?

The Trimble Construction Manager software offers six primary views of asset information:

- **Map:** See your assets at their current location, with icons to visually identify each one
- **Status:** View your fleet in a tabular format, showing current address, the individual sites where assets are located, and what their current status is (e.g., “moving” or “stopped”)

- **Reports:** Run any of the 17 predefined reports for specified assets and time periods
- **Charts:** Run ad-hoc charts for specified assets and time period
- **Dashboards:** Pre-configure charts to appear and refresh every time you run the Trimble Construction Manager software
- **Messaging:** Send and receive messages to/from assets enabled with the MDT and the two-way messaging service

What service plans are supported by the Trimble Construction Manager software?

The Trimble Construction Manager software supports six service plans. The following chart compares each service plan features and functions:

	Dispatch Plan	Professional Plan	Standard Plan	Basic Plan	CrossCheck Lite Plan	TrimTrac PM Plan
Feature	Function					
Event Alert Notification	Real Time	Real Time	Real Time	Real Time	Real Time	Every 30 Minutes ¹
Position Updates Between Events	Every Minute	10 positions every ten mins	Every 15 Minutes	Every 12 hours	Every 12 hours	Every 30 Minutes ¹
On-demand Position Update ¹	Standard	Standard	Standard	Standard	Standard	NA
Site Entry/Exit Events	Real Time	Real Time	Real Time	Real Time	Real Time	Every 30 Minutes ¹
Ignition Events	Real Time	Real Time	Real Time	Real Time	Real Time	Ignition On Only
Additional Sensors	Optional	Optional	Optional	Optional	NA	NA
Hours/Mileage	Standard	Standard	Standard	Standard	Standard	Hours Only
Idle/Working Time	Standard	Standard	Standard	Standard	Standard	NA
2-Way Messaging	Optional	Optional	Optional	Optional	NA	NA
Email Alerts	Optional	Optional	Optional	Optional	Standard	Limited ²
Price/Month	49.95	39.95	34.95	24.95	28.95	19.95
Hardware Compatibility	CrossCheck	CrossCheck	CrossCheck	CrossCheck	CrossCheck Lite	TrimTrac
Typical Use						
	Asphalt, Mining, Over-the-Road Trucks, State Mileage Requirements	Excavators, State Mileage Requirements	Mid-Level Equipment	Low Level and Portable Equipment	Specialized Use with Alerts	Positioning/Location, Hours of Use, Rental Equipment

¹ The TrimTrac Pro Locator reports every 30 minutes while in active mode. Report intervals may vary slightly based on coverage area.

² The TrimTrac Pro Locator email alerts are limited in terms of type of alerts and real-time reporting (Refer to the TrimTrac Pro Locator Datasheet).

Common Features

- 90 day event history
- CARB emission reporting

- Custom reports
- Dashboards
- 17 standard reports (10 with PM plan)
- 10 standard charts (4 with PM plan)

What are the optional services for the Trimble Construction Manager software?

- **Sensors** – Provide the ability to monitor additional items
- **Alerts** – Enable auto-send email alerts feature
- **2-Way Messaging** – Provides the ability to send and receive pre-defined messages

All of the above are available for an additional cost per month.

What reports are available from the Trimble Construction Manager software?

The following shows the standard reports and charts by hardware device:

Reports and charts	CrossCheck	CrossCheck Lite	TrimTrac Pro
Reports			
Asset Properties	Y	Y	Y
Asset Usage	Y	Y	Y
Asset Utilization	Y	Y	Y
California Emissions	Y	Y	Y
Congregation	Y	Y	N
Daily Activity Summary	Y	Y	Y
Engine Idle	Y	Y	N
Event and Positions	Y	Y	Y
Maintenance	Y	Y	Y
Mileage and Hours	Y	Y	Hours Only
Site Runtime	Y	Y	N
Sites Visited	Y	Y	Y
Speeding	Y	Y	N
Start Time	Y	Y	Y
State Mileage	Y	Y	N
Stop Period	Y	Y	N
Operator Usage	Y	Y	N
Charts			
Asset Activity Timeline	Y	Y	N
Asset Idle and Working Time	Y	Y	N
Asset Working Utilization	Y	Y	Y
Average Working Utilization	Y	Y	Y
Maintenance	Y	Y	Y
Mileage	Y	Y	N

Reports and charts	CrossCheck	CrossCheck Lite	TrimTrac Pro
Runtime Hours	Y	Y	Y
Site Runtime	Y	Y	N
Speeding	Y	Y	N

How am I invoiced for the Trimble Construction Manager software?

The Trimble Construction Manager service invoices are billed monthly. Monthly bills show detailed information as shown in the example below:

Summary of Charges			
Balance Information			
Prior Balance			122.76
Payment Received - Thank you			0.00
Balance Brought Forward			122.76
Current Charges			122.76
Total Amount Due			245.52
Balance Brought Forward Detail			
Invoice	400000015	15-APR-08	122.76
Total Balance Brought Forward Detail			122.76
Current Charges Invoice Detail			
Invoice	400000174	15-MAY-2008	122.76
Total Current Charges Invoice Detail			122.76
Summary of Current Charges			
Service			115.80
Other			0.00
Taxes			6.96
Credits/Adjustments			0.00
Total Current Charges			122.76



Services Invoice Customer #: 121211

Important Messages

For billing questions, technical questions or to change or cancel a service plan, please call 1.800.767.4822 or contact trimble_support@trimble.com.

For placing orders for additional hardware and/or services, please contact your Trimble Dealer or your Trimble Account Representative.

Please note the new remittance address above.

On your check stub reference field, please indicate which invoice number(s) payment should be applied to.

Trimble thanks you for your business.

Recurring Services Detail - Trimble Construction Manager

CrossCheck Lite Basic Alerts Service, 12 months

SN	Description	Invoice	Period	Optional Services			Cost	Tax	Amount
				Alerts	Messaging	Sensor			
3251597	CS CrossCheck Lite US SIM w/ combo GPS and GPRS antenna	400000174	2008/05/01 - 2008/05/31				28.95	1.74	30.69
3253099	CS CrossCheck Lite US SIM w/ combo GPS and GPRS antenna	400000174	2008/05/01 - 2008/05/31				28.95	1.74	30.69
3251500	CS CrossCheck Lite US SIM w/ combo GPS and GPRS antenna	400000174	2008/05/01 - 2008/05/31				28.95	1.74	30.69
3253066	CS CrossCheck Lite US SIM w/ combo GPS and GPRS antenna	400000174	2008/05/01 - 2008/05/31				28.95	1.74	30.69
Total CrossCheck Lite Basic Alerts Service, 12 months									122.76
Total Recurring Services									122.76

How do I get support for the Trimble Construction Manager software?

For questions regarding support for Trimble Construction Manager, there are several options. You can start by reading the Trimble Construction Manager Quick Guide found on the Trimble website

(www.trimble.com). To access the Quick Guide, from the Menu Bar in the Trimble Construction Manager software application, click *Help / TCM Help*.

If you have further questions, contact your local authorized Trimble distributor or Trimble Technical Support at trimble_support@trimble.com.

How is the Trimble Construction Manager software installed on my computer?

The Trimble Construction Manager software is a “thin-client” application that is installed on your computer. To install the software:

1. Open your Internet browser and go directly to the download page using the following link http://www.trimble.com/con_tcm_software_dwn.shtml on www.trimble.com.
2. Click the **Download Now** button to begin installing the Trimble Construction Manager software.
3. Once the installation is complete, a new icon appears on your desktop labeled Trimble Construction Manager.
4. Double-click on the desktop icon to log in to your Trimble Construction Manager account.

Note: *User name and password details are required to access the Trimble Construction Manager software. You will receive this information from Trimble once you have completed a service agreement. If you have purchased the Trimble Construction Manager solution and have not received your account details, please email trimble_support@trimble.com to request your account information.*

What are the requirements to install Trimble Construction Manager software on my computer?

- Windows Intel® Pentium® processor
- Windows® XP™ Professional, Home Edition; Windows Vista® Business, Home Edition
- 128 MB of RAM minimum
- 60 MB of available hard-disk space minimum
- Microsoft Excel version 2003 or later (for reports)
- Microsoft .NET 3.0 framework (the Trimble Construction Manager installer checks for this, and automatically directs you to the download website if necessary, before continuing with the Trimble Construction Manager installation)

Note: *If you use Mozilla Firefox as your Internet browser, you will need to install a free plug-in before you install the Trimble Construction Manager software: <https://addons.mozilla.org/en-US/firefox/addon/1608>*

Does Trimble charge for new versions of the Trimble Construction Manager software?

New versions of the Trimble Construction Manager software are frequently made available as new features are added. Software updates are available free and usually can be performed simply by opting to update when prompted by an automatic notice board that pops up in the Trimble Construction Manager

software application when a new version is available. Alternatively, the latest version is always available on the Trimble website at http://www.trimble.com/con_tcm_software_dwn.shtml.

Occasionally, new software releases include optional services that are available by adding them to your service agreement. To add such services, please contact your local authorized Trimble distributor.

How can I order the Trimble Construction Manager software?

Contact your local authorized Trimble distributor to place an order or to find out more. If you do not have a local distributor, visit www.trimble.com to find one. You can also email TCMsales@trimble.com.

How can I find out more?

Contact your local authorized Trimble distributor or visit the Construction Asset Management webpage on www.trimble.com.