

## KEY FEATURES

- Built on modern, open architecture
- Standard, user-friendly, customizable interface
- Full Trimble® Charisma software integration capabilities
- Pre- and post-broadcast integrity
- RSIM 1.1 and 1.2 compliant
- Supports both Nautel and SAC transmitters
- More than 450 customizable alarm options
- Advanced data storage capabilities
- Enhanced redundancy, security and data archiving

## KEY BENEFITS

- Improved control over beacon sites means increased coastal safety and security
- Save time and money by drastically reducing the number of on-site visits
- Monitor and control more beacon sites with less resources
- Easy-to-use software frees up operator time
- Scalable architecture ensures that future technology and enhancements are a breeze to install

Trimble® Coastal Center™ software is the first modern solution specifically designed to continuously monitor and control Differential Global Positioning System (DGPS) broadcast sites, such as coastal beacons, for marine navigation.



Trimble Coastal Center software, part of the Trimble Coastal Solutions product family, is the only beacon monitoring software designed with standards defined by the International Convention of Safety of Life at Sea (SOLAS), an internationally-recognized treaty protecting the safety of merchant ships. Developed to enhance the modernization of legacy DGPS provider systems, Trimble Coastal Center software is hosted on a platform common to other Trimble products and offers a bridge to future differential satellite-based positioning systems and capabilities.

Designed to provide network operators the ability to monitor and control multiple DGPS beacon stations from one central location, Trimble Coastal Center software saves operators time and money by automating functions and tasks remotely; tasks that previously required an on-site operator.

Built on a modern, open architecture, Trimble Coastal Center software is fully scalable and adaptable to meet a wide variety of DGPS provider network configurations, ranging from just one site to hundreds of broadcast sites. It can also adapt to different configurations and architectures within the same DGPS provider network. Depending upon network architectures and system requirements, the Trimble Coastal Center software can operate on a single PC-based platform or it can be distributed across several computers. Users can directly interface with the system and view all beacon sites from any licensed work station throughout the network.

Trimble Coastal Center software supports modern network communications standards as well as conventional communications standards such as RS-232 and 422. It is the only software solution that offers pre-broadcast integrity, a function that prevents inaccurate data from being transmitted, resulting in improved data integrity.



Offering all control station messages required under RSIM 1.1 and the new RSIM 1.2 standards, Trimble Coastal Center software provides a highly configurable alarming system that interfaces with email, PDAs and pager systems to immediately notify key personnel of up-to-the-minute system conditions; even those at the most remote locations. With its extensive event and message logging capabilities, combined with XML-based report generation, user-customized reports can easily be created and automated.

Trimble Coastal Center software is simply the best, most cost-effective solution on the market today for monitoring and controlling beacon sites. Its scalable architecture, combined with advanced Trimble technology, translates to flexibility, effortless operation and easy upgradability.



## SYSTEM REQUIREMENTS

### Hardware

- Single or dual processor, at least at 3.0 GHz, or dual core processor, at least at 1.5 GHz
- Random Access Memory of 2 GB
- USB port
- CD-ROM drive
- Graphics card with 1024 x 768 resolution and 16 MB RAM
- Hard Disk Capacity of 6 GB or more free space on the local drive for databases
- At least 20 GB free hard disk space for general operation

### Operating System

- Microsoft Windows Server 2003, Service Pack 1 or later
- Windows XP Professional, Service Pack 2 or later

### Ethernet Communications

- 100 Mbit/s communication link between computers running Trimble Distributed Environment
- 10 Mbit/s communication link between computers running Trimble Distributed Environment and computers running the Trimble Coastal Center User Interface

### Software Architecture

- Built on TDE Framework using Microsoft .Net
- Complete network solution—works with virtually any existing IT infrastructure
- Integrates seamlessly with Trimble Charisma software
- Standardized and module-based interface for easier training and operation
- Single and distributed service-based system
- Supports remote integrity monitors
- Built-in redundancy
- User-friendly Graphical User Interface

## TECHNICAL FEATURES

### Advanced Integrated Security

- Password protected
- Three user level options available to control functionality—Administrator, User or Guest

### Transmitter Support

- Nautel modern Vector D series transmitters (including ATU control)
- Southern Avionic Corporation (SAC) transmitters
- Ability to integrate both transmitters into one system

### Supported Message Formats

- RSIM 1.1 and 1.2 compliant
- Fully implements of all 40 RSIM 1.2 message functionality
- Modern Integrity Modes
  - Legacy Post-Broadcast Integrity Mode
  - Pre-Broadcast Integrity Mode
  - Combined Pre- and Post-Broadcast Integrity Mode
- RTCM 27

### Communication Link Support

- Legacy interfaces (e.g., RS-232)
- Modern interfaces (e.g., TCP/IP client and server)

## KEY FEATURES AND FUNCTIONALITY

### Alarm Management and Customization

- More than 450 alarms available for customization
- Customizable alarm notification and delivery (e.g., via email, mobile phone or pager)
- Configurable status reporting rates
- Configurable alarm clearing requirements
- Customizable text definitions for RSIM 25 control and monitor points
- Administrator-extendable RSIM 5 alarms
- Broadcast site special device and/or sensor control and monitoring using configurable RSIM 25

### Monitoring using Trimble Service Administrator

- Integrated service health monitoring
- Automatic restart functionality
- Customizable alarm management and delivery functions
- Microsoft Windows operating system event logging

### Beacon Control/Monitoring Features

- Transmission radio link settings
- Beacon site configuration consistency polling (background query interval)
- RTCM 16 transmissions with several configurable messages and message output times
- Side switch controls
- Full, Partial and DGPS resets (as defined in the RSIM standard)
- Collective and detailed views providing up-to-date health system status information
- Fully supports all RSIM 1.1 and 1.2 defined broadcast site controls for RS, IM, and transmitter/RIM devices
- Exploits transmitter specific extended controls and status information
- Administrator/User/Guest sensitive configuration and control limitations
- Extended Beacon Almanac, including nearby out-of-network sites
- Status information from the broadcast sites
- Status and health information about the system, e.g., socket loss

### Remote Configuration

- Reference Station Integrity Monitor
- Transmitter components (defined by the RSIM protocol used)
- Ability to remotely configure items like database files or paths, local window placement or IP addresses
- Control and monitor multiple broadcast station configurations from one location

### Advanced Data Logging Capability

- Supports most modern databases, such as Microsoft SQL Server
- All inbound and outbound RSIM messages for all sites are recorded and saved to the database
- All operator configuration change events are recorded
- All alarm events and operator alarm acknowledgement events are recorded

## REPORTING

### Trimble Report Generation Wizard

- Customizable report templates
- Automated report generation and scheduling
- Multiple format options—HTML, PDF and XML
- Pre-defined and user-definable XML-based report generation

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