

About Comtech Mobile Datacom's SENS

Sensor Enabled Notification System



Comtech Mobile Datacom's Sensor Enabled Notification System (SENS is a robust enabling technology that can deliver data from virtually any type of sensor (including GPS), can be combined with WLAN, cellular and wireless point-to-point communication methods and can also be integrated with end-point devices including RFID. By provisioning remote monitoring asset tracking services in near real-time, SENS is your solution to improving logistics, ensuring security, prevent and diagnose equipment failures, and recover lost or stolen property.

The System structure consists of an end-point sensor, a satellite transmitter, the satellite network, a SENS Appliqué receiver, AssetView and a network connection to the end user. Remote data is collected by the sensor, formatter and transmitted to the satellite network, and then delivered to the ground station where is decoded by the SENS Appliqué, a the decoded messages flow through the SENS AssetView Back Office and out to the recipient in near real time.

It is the simple structure of the SENS system that makes it such a cost effective and reliable solution. This is accomplished by moving signal processing complexities (size, power, maintenance and cost) to the SENS Appliqué receiver ad opposed to a transmitter. CPDMA, through its algorithmic efficiency in handling code transmission, allows the SENS Appliqué to separate and receive dozens to hundreds of overlapping transmission. All the signal processing complexities assigned to the SENS Appliqué leaves the remote transmitter to be as small , low power and robust as possible.

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CPDMA™

The SENS system uses Code Phase Division Multiple Access (CDPMA™) shifts signal processing away from many distributed transmitters used in traditional systems and places it into a single receiver, the SENS Appliqué.

SENS Appliqué Receiver

The SENS Appliqué Receiver is an add-on unit for ground stations that provide connectivity between satellites and the SENS Back Office. The SENS Appliqué receives signals coming from the satellites, digitizes them and searches for the presence of packets. It then demodulates and forwards the packets to the SENS Back Office, enabling users to retrieve and view their transmitted data securely.

AssetView

The SENS AssetView is a web based application of the SENS Back Office. AssetView is a single point of access to account information. AssetView's Total Access, includes unit management, multi tiered user access levels, and group administration. You can review message status and configure alerts and data forwarders. AssetView is a web based application for all types of industry applications.

