



Cadcorp SIS® - Spatial Information System®

Cadcorp offers two mobile GIS options for field-based data capture. Firstly, Cadcorp mSIS® - mobile Spatial Information System® is an easy-to-use data capture application for the Pocket PC platform. Secondly, the Cadcorp SIS® – Spatial Information System® desktop product family runs on the Tablet PC platform without modification and supports GPS at no extra cost.

Cadcorp mSIS – mobile Spatial Information System

Mobile data capture for the Pocket PC

Cadcorp mSIS - mobile Spatial Information System, is an easy to use data capture application for the Pocket PC platform. The mSIS application is supplied in two parts, a desktop based project management package - mSIS Office, plus the Pocket PC based data capture software - mSIS Mobile.

Platform support: Microsoft Windows Mobile software for Pocket PCs

The Cadcorp approach

Cadcorp recognises that data capture should be quick, easy, accurate and consistent. The Cadcorp approach offers project managers the capability to define and control projects effectively from their desktop and give field operatives a Pocket PC tool for swift, structured data collection with both freely placed and GPS input graphic features.

Cadcorp recognises that mSIS customers will include existing users of Cadcorp SIS, as well as users of other GIS packages. Support for a range of third party data formats in mSIS makes this possible.

Work with a wide range of data formats

mSIS supports a number of file formats including Cadcorp SDS, ESRI Shape, MapInfo TAB and OS MasterMap®, plus various raster formats including ECW, GeoTiff, TIFF, BMP, GIF and JPEG. Data is easily downloaded and uploaded from desktop to Pocket PC using standard Microsoft ActiveSync™ tools.

Desktop project management

Cadcorp mSIS offers project managers the capability to define and control projects effectively from their desktop PC.

Project management tasks require the set-up of many parameters. These include choosing the right base map data, configuring the appearance of overlays, setting the spatial reference system and building simple user interfaces for data input. All these GIS functions are easily achieved and ported using the mSIS Office package. mSIS Office includes an integrated XML Schema Editor, an easy to use 'logic tree' that allows rapid development of bespoke data capture 'projects'.

With a similar look and feel to that of the Cadcorp SIS desktop product family, mSIS Office is ideal for both existing and new users.



Trimble® Recon™ GPS Card edition running mSIS

Small but packing a punch

A wide range of rugged handheld devices are available to suit users particular requirements and work environment. A device with add-on GPS providing 5 to 10 meter GPS position accuracy is ideal for an entire field workforce, whilst high-performance devices offer specialist users submeter GPS position accuracy with integrated Wide Area Augmentation System (WAAS) / European Geostationary Navigation Overlay System (EGNOS). Many of these devices contain rugged features, an all-day battery, a clear, bright TFT colour screen, and wireless connectivity.

Cadcorp mSIS on the Pocket PC allows the user to view geo-spatial data, to create vector geometry such as points, lines, polygons, circles and rectangles as well as user defined data attributes. mSIS will link to any GPS receiver which supports NMEA 0183 formatted GPS messages and create GPS point, line and area vectors.

Cadcorp SIS on Tablet PC

The Cadcorp SIS desktop product family runs on Windows XP Tablet Edition without modification and supports GPS at no extra cost. Cadcorp SIS may be used in the field on a (rugged) Tablet PC with integrated or add-on GPS for asset or facilities management, and more accurate and automated data capture. The built-in support for GPS devices includes connecting to a GPS, construction of graphic data based on GPS positions, insertion of the GPS position into any command that is waiting for a position, control of the GPS device using the GPSView Workspace Window tab with GPS 'skyplot', and saving and replaying logs of GPS NMEA strings.

EXIF GPS image support

The EXchangeable Image Format (EXIF) is supported for GPS geo-referenced digital camera images. When EXIF images are added to the Map Window, a layer file of icons is created indicating the locations of the image files. The icons are hyper-linked to the image files for immediate access from within the interface.

In addition to storing GPS coordinates in the image EXIF header, many GPS-enabled cameras utilise a user-configurable menu system to allow additional metadata to be captured



Ittronix® Duo-Touch™ running Map Modeller



Ricoh® Pro G3 GPS-ready digital camera

and embedded into the image. This combined data is extracted from the image, to provide both positioning of the image and display of the metadata. Right-clicking the mouse over an icon optionally displays a list of the metadata associated with an image.

For workflows that require both ground-based imaging and GIS capability, the combination of digital imaging technology and Cadcorp SIS provides a compelling application.

Image on front page courtesy of Panasonic and showing the Panasonic ToughBook with integrated GPS running Map Modeller

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