Tao™

Differential GPS Interface for ArcView 3

TAO™ from Spatial Data Research is a highly-integrated global positioning system (GPS) interface for real-time mapping in ArcView. TAO™ provides full GPS receiver control including management of integrated and external differential correction sources yielding submeter accuracies.

FEATURES & BENEFITS

- Robust GIS/GPS interface with transparent GIS integration
- Submeter accuracies Real-time GIS field data collection
- Integrated with SDR's ASIA and AddressIt 911 software
- NMEA and Trimble TSIP binary support
- Coordinate translation

OPTIONS

- Laser interface for automated offsets
- MapObjects, MapX, FRAMME, GeoMedia, MicroStation, & MapInfo support
- Electric transmission and distribution data collection interfaces

GIS/GPS Integration

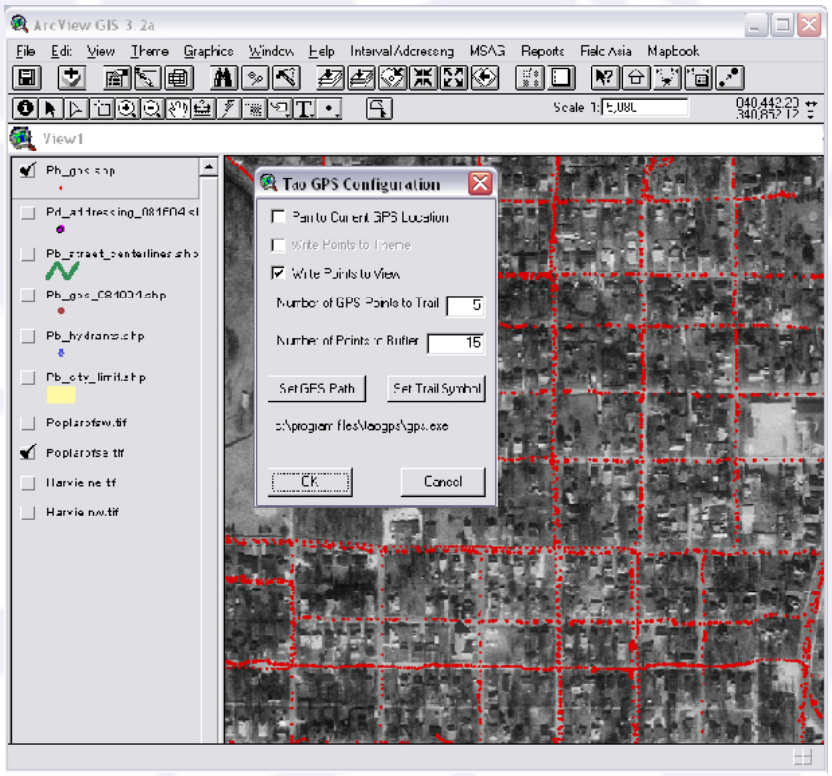
TAO™ is a tightly integrated GIS/GPS data collection system for ArcView. Users can collect and add GIS features and attributes directly to their Arc Shape files with real-time submeter GPS accuracy.

TAO™ can also be used as a super-accurate navigation tool to locate buried or snow-covered utility assets.

TAO™ creates a "bread-crumb" map indicating the location of the survey vehicle every second, permitting users to perform "heads-up" digitizing to map their features.

GPS Receivers

The GPS receivers supported are the submeter



SDR, 14E 8th St, Lawrence, KS 66044, 800-238-1911, www.sdrmaps.com

12-channel Trimble Pathfinder XRS and Pathfinder XR real-time differential receivers and the 8-channel Pathfinder Card.

Other GPS receivers are also supported using the NMEA protocol. These receivers provide a range of price and positioning accuracy to satisfy every GIS need and application.

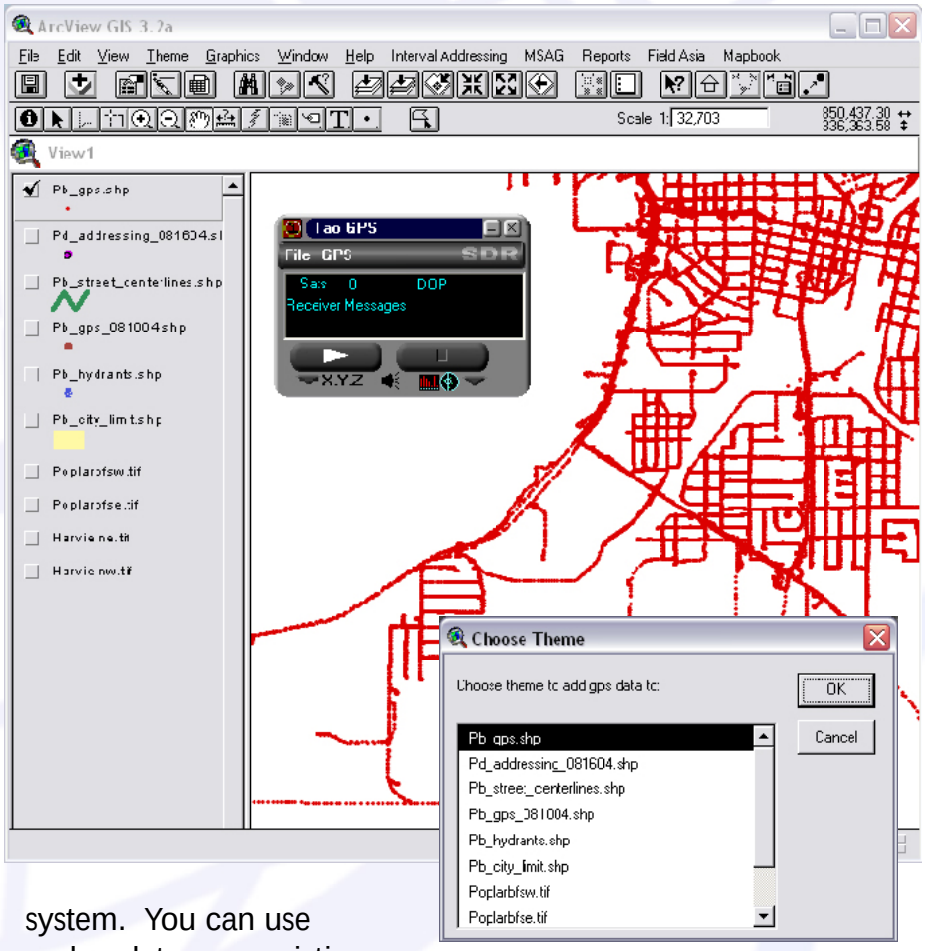
GPS Data

Users can append GPS information to the features being mapped, such as the satellites tracked, PDOP, differential correction status, GPS date, time, receiver status, etc.

TAO™ continuously monitors the quality of GPS signals and sources of differential correction to ensure the accuracy of your GPS positioning. TAO™ also provides full control over real-time differential correction sources such as satellites and beacons using manual and fully automatic settings. GPS satellite and differential status is also displayed in the Windows System Tray for user feedback.

Coordinate Translation

TAO translates GPS latitude and longitude into your local coordinate system. You can use and update your existing ArcView Shape files directly in the field, without intermediate coordinate translations. Over 180 coordinate systems are supported as well as several datums and geoids for more specialized mapping.



GPS Integration

TAO has already been interfaced to many ActiveX applications, including Map Objects, Geo-Media, MicroStation, FRAMME, and MapInfo for real-time mapping of utility assets. These ports are available as off-the-shelf components for your AM/FM/GIS application.

SDR can also easily build you a custom GPS data collection system for Windows, Windows CE, Psion Epoch, and Palm operating systems.

ASIA/AddressIt Integration

TAO is tightly integrated with SDR's ASIA 9-1-1 mapping, addressing, and database development tools. Using TAO with ASIA, users can map roads, calculate address ranges, and assign new addresses directly in the field.