

ArcPad[®]

Mobile GIS Software for Field Mapping Applications



UTM Zone 11N
481978.5E
3768569.9N
DGPS 3D 377m
SOG 13ph
TCOG 174°
DST 379.2m
BRG 147°
PPOF 3.8

City Trees
Site Information
Tree Info
Tree ID Number 1500
Date Visited 7/5/01
House Number 5005
Street Name HARBOR DR RAMP
Owner Class Public-City
General Site Information
Terrace 2-4'

ArcPad®

Mobile GIS Software for Field Mapping Applications

ESRI® ArcPad® software is a mobile mapping and geographic information system (GIS) technology. ArcPad provides database access, mapping, GIS, and global positioning system (GPS) integration to users in the field via handheld and mobile devices. Data collection with ArcPad is fast, easy, and significantly improved with immediate data validation and availability.

Leverage Your Existing Data

ArcPad leverages existing mapping and GIS software systems and databases. There is no need to convert data to unique portable formats. ArcPad supports a multilayer environment with industry-standard vector map and raster image display that includes aerial photographs and satellite imagery. Data can also be provided from the Internet via wireless technology. The combination of online and existing offline data capabilities makes ArcPad an invaluable tool for users in the field.

ArcPad supports the following data formats:

- ESRI shapefiles
- MrSID® by LizardTech
- Windows® bit map
- JPEG
- ArcIMS® image services via the Internet

Display and Query Your Map

ArcPad has a number of map navigation display and query tools including

- Variable zoom and pan.
- Fixed zoom.
- Zoom to a specified layer or spatial bookmark.
- Center on the current GPS position.
- Measure distance, area, and bearings on your map.
- Identify features by tapping on them.
- Display additional information about features through a hyperlink.
- Locate, label, and zoom to a feature.



ArcPad supports vector and raster data in a multilayer environment.



Hyperlink to external documents.



Integrate GPS and GIS in the field for more precise spatial data collection.

Navigate with Your GPS

ArcPad also offers integration with an optional GPS or differential GPS. ArcPad provides navigational information from the current GPS position to the destination, a GPS track log that illustrates the path you have traveled, and GPS data capture. Set GPS quality controls, such as position dilution of precision (PDOP) and estimated position error (EPE), and perform position averaging for points and vertices.

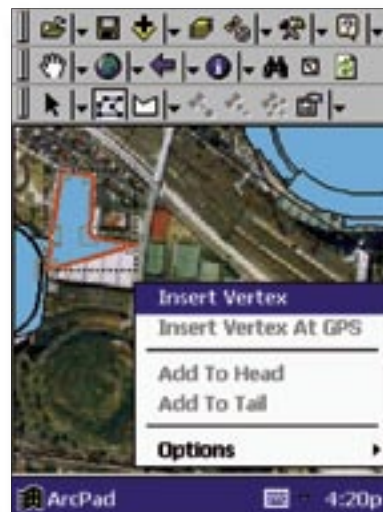
GPS support is available on receivers that support the following protocols:

- National Maritime Electronics Association
- Trimble Standard Interface Protocol
- DeLorme Earthmate Binary Protocol

Edit Your Data

ArcPad allows you to create and edit spatial data using input from either the mouse pointer, pen, or GPS. Editing capabilities in ArcPad include

- Create, edit, delete, and move features.
- Add, delete, and move vertices for lines and polygons.
- Append vertices to existing line features.
- Capture GPS points while in the process of capturing a line or polygon with a GPS (i.e., nested points).
- Edit attribute information using custom forms created with the ArcPad Application Builder.



Edit your existing line features by adding and moving vertices.

Enhance Your GIS Solution

ArcPad is designed to be a field-based extension to your GIS or ArcGIS® system. Use the ArcPad tools custom toolbar for ArcGIS Desktop 8.1 or higher (ArcView®, ArcEditor™, or ArcInfo®) or the ArcPad tools extension for ArcView 3.x. These tools allow you to extract, project, convert, and export symbology for your data on your desktop for use in ArcPad. ArcPad is a complement to ESRI's existing comprehensive family of mapping and GIS software.

Many Potential Applications

ArcPad enables specialized mapping and data collection in a wide range of industries and applications including the following:

- Street sign inventory
- Power pole maintenance
- Meter reading
- Road pavement management
- Military fieldwork
- Toxic inventory
- Mineral exploration
- Habitat studies
- Crop management
- Property damage assessment
- Field surveying
- Incident reporting and inspection



Use data maintained in ArcGIS Desktop software in the field with ArcPad.

ArcPad System Requirements

Supported Operating Systems

- Windows® Mobile 2003 Second Edition for Pocket PC
- Pocket PC 2002 and Pocket PC 2003 (also known as Windows Mobile 2003 for Pocket PC)
- Windows CE .NET 4.1 and 4.2
- Windows CE 2.11, 2.12, and 3.0
- Windows 95/98/2000, Windows NT®, and Windows XP

CPU Chips for Mobile Devices

- ARM (including StrongARM and XScale)
- Hitachi SH3 and SH4
- MIPS
- x86

RAM

- 32 MB (minimum)
- 64 MB (recommended)

To download ArcPad evaluation software, visit
www.esri.com/downloadarcpad.

ArcPad Application Builder

Development and Customization Framework for ArcPad

Although ArcPad is designed to be flexible and easy to use, you may want the interface to reflect your own preferences and the way you work. You can customize ArcPad using the optional ArcPad Application Builder, a separate product available from ESRI.

The ArcPad Application Builder bundles a desktop customization application called ArcPad Studio, a copy of ArcPad, detailed online documentation, sample code, and first-year maintenance. All customization is performed on the desktop primarily using ArcPad Studio and deployed with ArcPad on the mobile device. The ArcPad Application Builder gives you the tools to customize ArcPad but is not required to utilize a customized version of ArcPad.

The ArcPad Application Builder enables you to

- Create new toolbars that contain built-in and custom tools.
- Design custom forms to streamline data collection in the field.
- Write scripts that automate tasks and interact with ArcPad software's internal objects.
- Build applets to accomplish your organization's unique goals.
- Develop extensions to support new file formats and positioning services.



Create effective field solutions with the ArcPad Application Builder that include custom tools and forms with data validation.

For more information, visit
www.esri.com/arcpad.

ArcPad Application Builder System Requirements

Many of the customization and personalization tasks are performed directly using ArcPad Studio and require little or no programming. For more complex tasks, ArcPad Studio exposes an extensive object model that can be accessed by using VBScript.

Supported Operating Systems

- Windows XP
- Windows NT 4.0
- Windows 2000
- Windows 98/Me



For more than 35 years ESRI has been helping people manage and analyze geographic information. ESRI offers a framework for implementing GIS technology in any organization with a seamless link from personal GIS on the desktop to enterprise-wide GIS client/server and data management systems. ESRI GIS solutions are flexible and can be customized to meet the needs of our users. ESRI is a full-service GIS company, ready to help you begin, grow, and build success with GIS.

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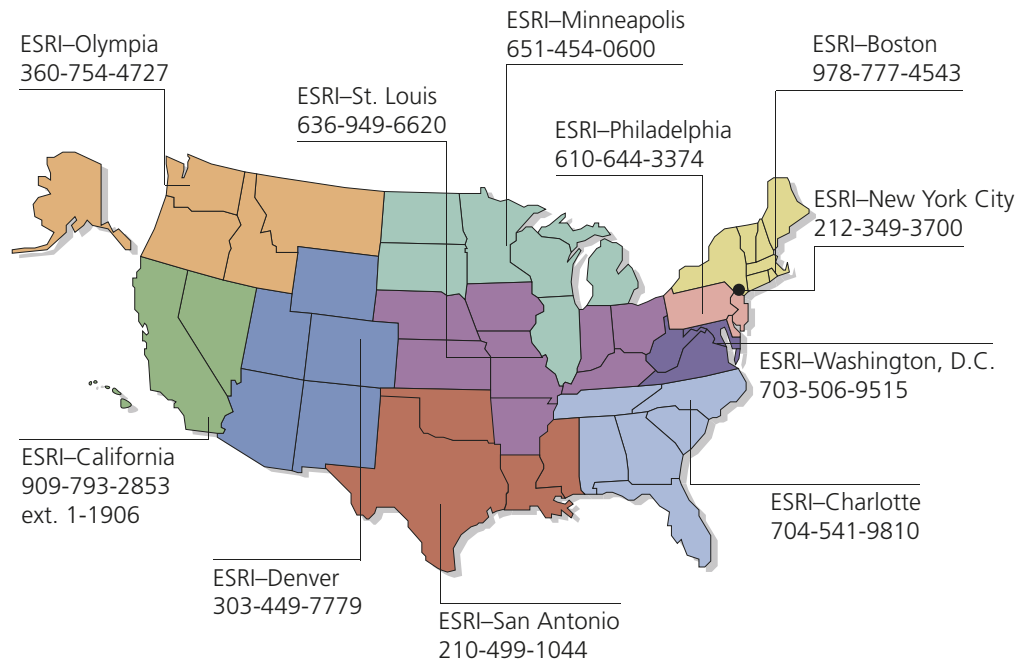
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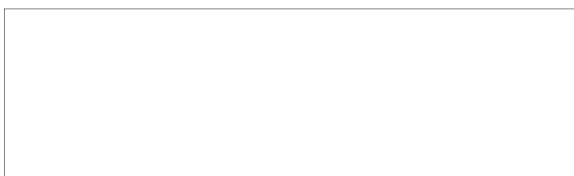
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